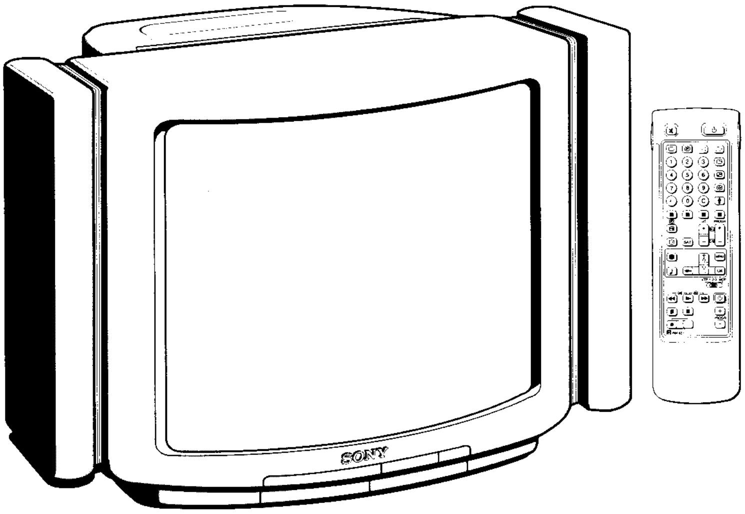
SERVICE MANUAL

AE-2A CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-E2541A	RM-831	Italian	SCC-G12A-A
KV-E2541B	RM-831	French	SCC-G13A-A
KV-E2541D	RM-831	AEP	SCC-G14A-A
KV-E2543E	RM-831	Spanish	SCC-G15A-A
KV-E2542U	RM-831	UK	SCC-G16A-A



Super **Trinitron**

TRINITRON® COLOR TV

SONY®

MICROFILM

Specifications

ITEM MODEL	Television system	Stereo system	Channnel coverage	Color system
Italian	B/G/H, D/K	GERMAN Stereo	ITALIA VHF:A-H2 (C) UHF:21-69 PAL B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
French	B/G/H, D/K L, I	GERMAN Stereo	L VHF:F02-F10 UHF:F21-F60 CABLE:B-Q B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) UHF:21-69 D/K VHF:R01-R12 UHF:R21-R69 I UHF:B21-B69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
AEP	B/G/H, D/K	GERMAN Stereo	PAL B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) UHF:21-69 D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
Spanish	B/G/H, D/K	GERMAN/NICAM Stereo	PAL B/G VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) UHF:21-69 D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
UK	I	NICAM Stereo	UHF : B21-B69	PAL SECAM, NTSC 4.43 NTSC 3.58 (VIDEO IN)

MODEL	Italian	French	AEP	Spanish	UK
Power consumption	108 W	120 Wh	117 Wh	120 Wh	175 W

Picture tube	Super Trinitron Approx. 63 cm (25inches) (Approx. 60 cm picture measured diagonally) 110 ° -deflection

【REAR】

-⊖ 1 21-pin Euro connector
(CENELEC standard)
Inputs for audio and video signals
- inputs for RGB
- outputs of TV video and audio signals

⊖→ 2/-⊖ 2 21-pin Euro connector
- inputs for audio and video signals
- inputs for S video
- outputs for audio and video signals (selectable)

⊖→ 4/-⊖ 4 21-pin Euro connector
- inputs for audio and video signals
- inputs for S video
- outputs for audio and video signals (monitor out)

-⊖ 2, -⊖ 4 S video inputs
- 4 pin DIN

-⊖ Audio inputs (L, R) - phono jacks
⊖→ S video output - 4 pin DIN
⊖→ Audio outputs - phono jacks
⊖→ Audio outputs (variable) - phono jacks
External speaker terminals : 2-pin DIN
Woofer terminal : 2-pin

【FRONT】

-⊖ 3 Video input-phono jack
-⊖ Audio input-phono jacks
-⊖ 3 S video input 4-pin DIN
Ω Headphone jack : Stereo minijack

Sound output	2×11W Side Speakers (RMS) 25W Woofer(RMS) 2×25W Side Speakers (Music)
Power reqirement	220-240V
Dimensions	Approx.725 x 551 x 495 mm
Weight	Approx.40kg
Supplied accessories	RM-831 Remote Commander (1) IEC designation R6 batteries (2)
Other features	NICAM, FASTEXT

【RM-831】

Remote control system	infrared control
Power requirements	3V dc 2 batteries IEC designation R6 (size AA)
Dimentions	Approx.65×225×21mm (w/h/d)
Weight	Approx.157g (Not including Batteries)

Design and specifications are subject to change without notice.

Model name Item	KV-E2541A	KV-E2541B	KV-E2541D	KV-E2543E	KV-E2542U
Pal Comb	ON	ON	ON	ON	ON
PiP	ON	ON	ON	ON	ON
RGB Priority	ON	ON	OFF	OFF	OFF
Woofer Box	ON	ON	ON	ON	ON
Scart 1	ON	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON	ON
Front in (3)	ON	ON	ON	ON	ON
Scart 4	ON	ON	ON	ON	ON
Dyn. Convergence	OFF	OFF	OFF	OFF	OFF
Projector	OFF	OFF	OFF	OFF	OFF
AKB in 16:9 mode	ON	ON	ON	ON	ON
Norm B/G	ON	ON	ON	ON	OFF
Norm I	OFF	ON	OFF	OFF	ON
Norm D/K	ON	ON	ON	ON	OFF
Norm AUS	OFF	OFF	OFF	OFF	OFF
Norm L	OFF	ON	OFF	OFF	OFF
Norm SAT	OFF	OFF	OFF	OFF	OFF
Norm M	OFF	OFF	OFF	OFF	OFF
Language Preset	Italiano	Francais	Deutsch	None	English

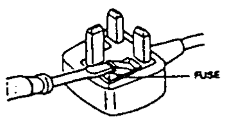
WARNING KV-E2542U only

The flexible mains lead is supplied to connected a B.S. 1363 fused plug having a fuse of 5 amp capacity. Should the fuse need to be replaced, use a 5 AMP FUSE approved by ASTA to BS 1362, ie carries the ◈ mark.

If the plug supplied with this appliance is not suitable for your socket outlets in your home, it should be cut off and an appropriate plug fitted.

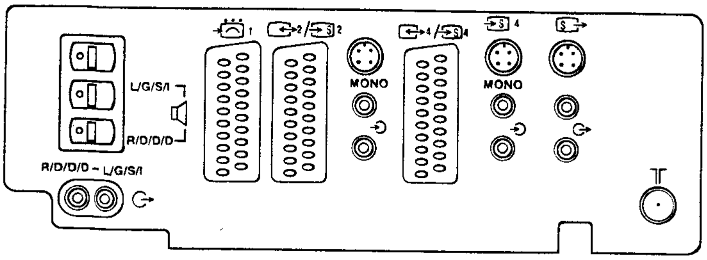
The plug severed from the mains lead must be destroyed as a plug with bared wires is dangerous if engaged in a live socket outlet.

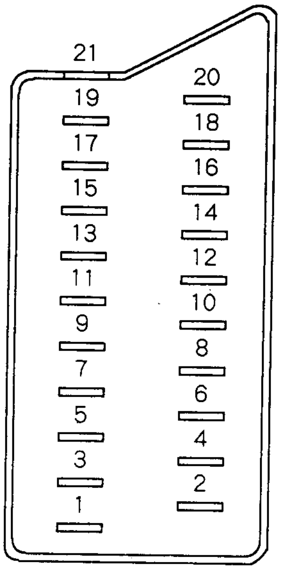
When an alternative type of plug ist used it should be fitted with a 5 AMP FUSE, otherwise the circuit should be protected by a 5 AMP FUSE at the distribution board.



How to replace the fuse
Open the fuse compartment with the blade screwdriver, and replace the fuse.

21 pin connector (⊖1 ⊕2/⊕4)





Pin No	1	2	Signal	Signal level
1	○	○	Audio output B (right)	Standard level : 0.5Vrms Output impedance : Less than 1kohm *
2	○	○	Audio input B (right)	Standard level : 0.5Vrms Input impedance : More than 10kohms *
3	○	○	Audio output A (left)	Standard level : 0.5Vrms Output impedance : Less than 1kohm *
4	○	○	Ground (audio)	
5	○	○	Ground (blue)	
6	○	○	Audio input A (left)	Standard level : 0.5Vrms Input impedance : More than 10kohms *
7	○	●	Blue input	0.7 ± 3dB, 75ohms, positive
8	○	○	Function select (AV control)	High state (9.5 – 12V) : Part mode Low state (0 – 2V) : TV mode Input impedance : More than 10kohms Input capacitance : Less than 2nF
9	○	○	Ground (green)	
10	○	○	Open	
11	○	●	Green	Green signal : 0.7V ± 3dB, 75ohms, positive
12	○	○	Open	
13	○	○	Ground (red)	
14	○	○	Ground (blanking)	
15	○	–	Red input	0.7V ± 3dB, 75ohms, positive
	–	○	(S signal) croma input	0.3V ± 3dB, 75ohms, positive
16	○	●	Blanking input (Ys signal)	High state (1 – 3V) Low state (0 – 0.4V) Input impedance : 75ohms
17	○	○	Ground (video output)	
18	○	○	Ground (video input)	
19	○	○	Video output	1V ± 3dB, 75ohms, positive Sync : 0.3V (– 3, + 10dB)
20	○	–	Video input	1V ± 3dB, 75ohms, positive Sync : 0.3V (– 3, + 10dB)
	–	○	Video Input/Y (S signal)	1V ± 3dB, 75ohms, positive Sync : 0.3V (– 3, + 10dB)
21	○	○	Common ground (plug, shield)	

○ Connected ●unconnected (open) * at 20Hz – 20kHz

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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND, IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE.
LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

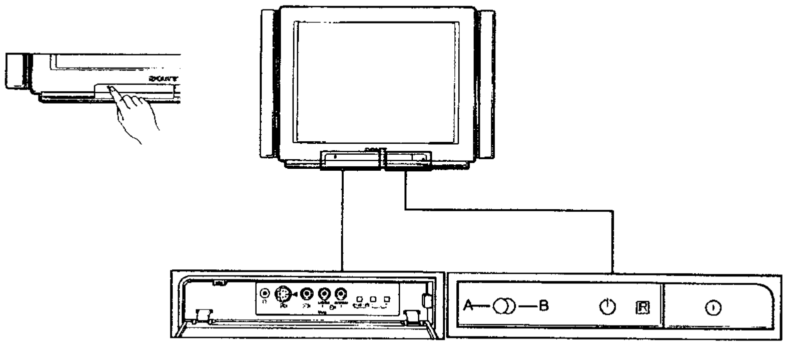
Overview

SECTION 1
GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remein as in the manual.

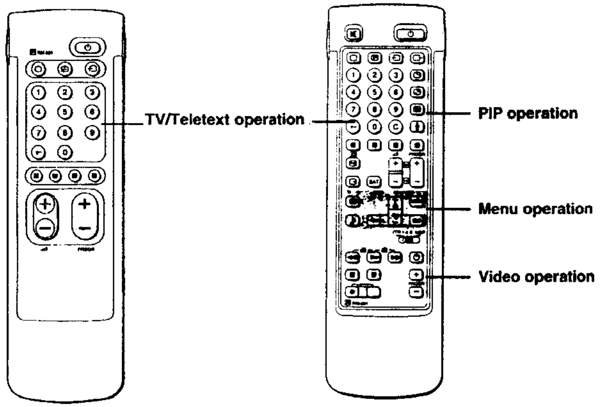
This section briefly describes the buttons and controls on the TV set and on the Remote Commander. For more information, refer to the pages given next to each description.

TV set - front



Symbol	Name	Refer to page
①	Main power switch	14
⏻	Standby indicator	14
A-◎-B	Stereo A/B indicators	16
∩	Headphones jack	22
⇾Ⓢ3, ⇾⊙3, ⇾⊙ 3	Input jacks (S-video/video/audio)	22
P→⊿→⇾⊙	Function selector (Programme/volume/input)	15
– →·← +	Adjustment buttons for function selector	15

Remote Commander RM-831



Simple side

Full-Function side

Note
The SAT button does not operate with this TV.

TV/Teletext operation

Symbol	Name	Refer to Page
🔇	Mute on/off button	15
⏻	Standby button	14
▢	TV power on/TV mode selector button	14
⊜	Teletext button	15
⇾⊙	Input mode selector	15
⊙⇾	Output mode selector	23
1,2,3,4,5,6, 7,8,9, and 0	Number buttons	14
-/- -	Double-digit entering button	14
C	Direct channel entering button	11
⊿+/–	Volume control button	14
PROGR +/–	Programme selectors	14
⊟⊟	Teletext page access buttons	19
●	Picture adjustment button	16
♪	Sound adjustment button	16
⊕	On-screen display button	15
⊟	Teletext hold button	19
◎	Time display button	15
■■■■	Fastext buttons	19

PIP (Picture-in-picture) operation

Symbol	Name	Refer to Page
◔	PIP on / off button	18
↑	PIP source selector	18
◔	Swap button	18
◔	PIP position changing button	18

Menu operation

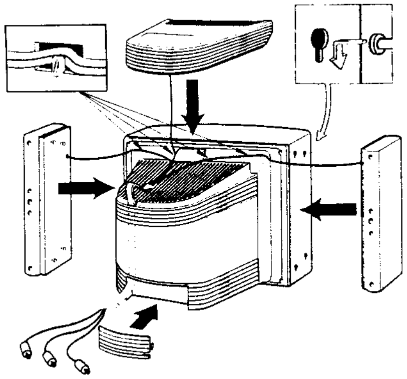
Symbol	Name	Refer to Page
MENU	Menu on / off button	8
△+/▽–	Select buttons	8
OK	OK (confirming) button	8
←	Back button	8

Video operation

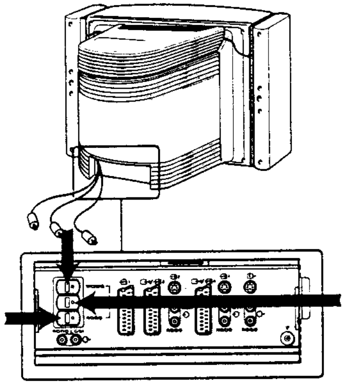
Symbol	Name	Refer to Page
VTR1/2/3 MDP	Video equipment selector	24
◀◀ ▶ ▶▶ ■ ❚❚ ● ⏻ PROGR +/–	Video equipment operation buttons	24

Step 2 Connection

❶ Connect the speakers and the woofer

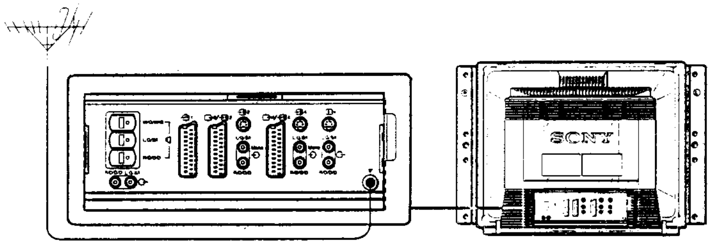


Hook the two side speakers (L = Left, R = Right) into the openings on both sides of the TV. Clip the cables of the speakers into the hooks on top of the set and pass the cables down through the opening at the rear of the TV (see above illustration).
Plug the connectors of the speaker cords into the rear of the TV (L/G/S/I for the left box, R/D/D/D for the right box with the longer cable).



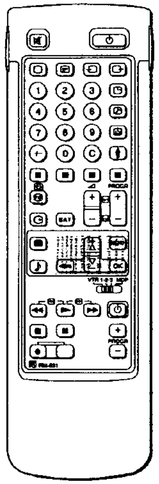
Pass the cable of the woofer down through the opening at the rear of the set. Place the woofer on top of the TV and plug the connector of the woofer into the rear of the TV (W/G/W/G).

❷ Connect the aerial



Fit an IEC aerial connector attached to 75-ohm coaxial cable (not supplied) to the ⫪ socket at the rear of the TV.

Step 3 Tuning in to TV Stations

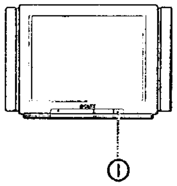


Once you have set up the TV, you can choose the language of the menu. Then you should preset the channels (up to 100 channels) by choosing either the automatic or manual method.

The automatic method is easier if you want to preset all receivable channels at once. Use the manual method if you only have a few channels and want to preset channels one by one. The manual method is also convenient for allocating programme numbers to various video input sources.

Before you begin

- Check that the Full-Function side of the Remote Commander is visible.
- Locate Menu operation buttons on the Remote Commander. They are shaded in the illustration at the left.



To go back to main menu:
Keep pressing ⬅.

To go back to the normal TV picture:
Press MENU. Normal TV picture will be restored after one minute if menu functions are not selected.

Note on the Demo function:
If you choose Demo on the main menu, you can see a sequential demonstration of the menu functions. Press MENU to stop the function.

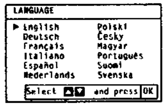
❶ Choose a language

1 Depress ⏻ on the TV.
The TV will switch on. If the standby indicator on the TV is lit, press ▢ or a number button on the Remote Commander.

2 Press the MENU button.
The LANGUAGE menu appears. (See Fig. 1)

MENU

3 Select the language you want with △+ or ▽–, and then press OK.



LANGUAGE
▶ English Polski
Deutsch Česky
Français Magyar
Italiano Português
Español Suomi
Nederlands Svenska
Select ▲▼ and press OK

Fig. 1.

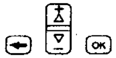
❷ Display the Menu

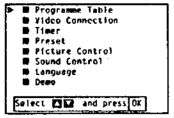
Press the ⬅ button.
The main menu appears. (See Fig. 2)

Now, choose one of the methods described overleaf:
"Preset Channels Automatically"

or

"Preset Channels Manually".





▶ ■ Programme Table
■ Video Connection
■ Timer
■ Preset
■ Picture Control
■ Sound Control
■ Language
■ Demo
Select ▲▼ and press OK

Fig. 2.

With this method, you can preset all receivable channels at once.

To stop automatic channel presetting:
Press ← on the Remote Commander.

Notes:
- After presetting the channels automatically, you can check which channels are stored on which programme positions. For details, see "Using the Programme Table" on page 17.
- You can exchange the programme positions to have them appear on screen in the order you like. For details, see "Exchanging the Programme Positions" on page 11.

❸ Preset channels automatically

1 Select `Preset` with △+ or ▽– and press OK.
The `PRESET` menu appears. (See Fig. 3.)

2 Select `Auto Programme` with △+ or ▽– and press OK.
The `AUTO PROGRAMME` menu appears. (See Fig. 4.)

3 Press OK repeatedly until the first element of the "PROG" number is highlighted.

4 Select the programme (number button) from which you want to start presetting. Select the first element of the double-digit number with △+ or ▽– or the number buttons (e.g. For "04", select "0" here) and press OK.
The second element of "PROG" will be highlighted.

5 Select the second element of the double-digit number with △+ or ▽– or the number buttons (e.g. For "04", select "4" here) (See Fig. 5.) and press OK.

6 The automatic channel presetting starts.
When presetting is finished, the preset menu reappears. All available channels are now stored on successive number buttons. (Press menu to restore normal TV picture).

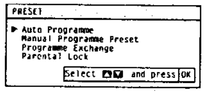


Fig. 3.

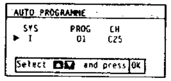


Fig. 4.

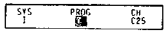


Fig. 5.

Use this method if there are only a few channels in your area to preset or if you want to preset channels one by one. You may also allocate programme numbers to various video input sources.

If you have made a mistake:
Press ← to go back to the previous position.
To go back to main menu
Keep pressing ←.
To go back to the normal TV picture
Press MENU.

❸ Preset channels manually

1 Select `Preset` with △+ or ▽– and press OK.
The `PRESET` menu appears. (See Fig. 6.)

2 Select `Manual Programme Preset` with △+ or ▽– and press OK.
The `MANUAL PROGRAMME PRESET` menu appears. (See Fig. 7.)

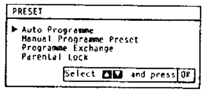
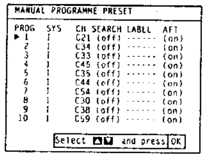


Fig. 6.


MANUAL PROGRAMME PRESET

PROG	SYS	CH	SEARCH	LABEL	AFT
▶ 1	I	C21	(off)	------	(on)
2	I	C34	(off)	------	(on)
3	I	C33	(off)	------	(on)
4	I	C45	(off)	------	(on)
5	I	C35	(off)	------	(on)
6	I	C44	(off)	------	(on)
7	I	C54	(off)	------	(on)
8	I	C30	(off)	------	(on)
9	I	C38	(off)	------	(on)
10	I	C59	(off)	------	(on)

Fig. 7.

To tune in a channel by frequency:
After selecting F in step 6, enter three digits using the number buttons.
Press OK.

Please refer to "Television Channel Number Guide" on page 26.

If you have made a mistake:
Press ← to go back to the previous position.
To go back to main menu
Keep pressing ←.
To go back to the normal TV picture
Press MENU.

3 Using △+ or ▽–, select the programme position (number button) to which you want to preset a channel, and press OK.

4 Keep pressing ▽– to select programme numbers higher than 10.

5 Select, if necessary, a video input source (EXT) with △+ or ▽–.
Then press OK. The first element of the CH position will be highlighted. (See Fig. 8.)

6 Using △+ or ▽–, select C (to preset a regular channel), or F (to tune in by frequency) and press OK.
The first element of the "CH" number will be highlighted.
If you have selected EXT in step 5, select the video input source with △+ or ▽–. (See Fig. 9.)

There are two ways to preset channels. If you know the channel number, go to step "7-Manual",

or

if you don't know the channel number, go to step "7- Search".

7 ***Manual***

-a Select the first element of the "CH" number with △+ / ▽– or the number buttons and press OK.
The second element of the "CH" number will be highlighted.

-b Select the second element of the number with △+ / ▽– or the number buttons.
The selected number appears. (See Fig. 10.)

-c Press OK
The "SEARCH" position is highlighted and the selected channel is now stored. (See Fig. 11.)

-d Press OK until the cursor appears by the next programme position.

-e Repeat steps 3 to 7 to preset other channels.

7 ***Search***

-a Press OK repeatedly until the colour of the SEARCH position changes.

-b Start searching for the channel with △+ (up) or ▽– (down).
The CH position changes colour. (See Fig. 12.)
The CH number starts counting up or downwards. When a channel is found, it stops. (See Fig. 13.)

-c Press OK if you want to store this channel. If not, press △+ or ▽– to continue channel searching.

-d Press OK until the cursor appears by the next programme position.

-e Repeat steps 3 to 7 to preset other channels.

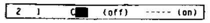


Fig.8.

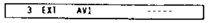


Fig.9.

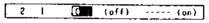


Fig.10.

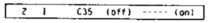


Fig.11.

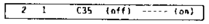


Fig.12.

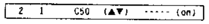
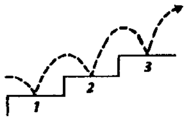


Fig.13.

Additional Presetting Functions

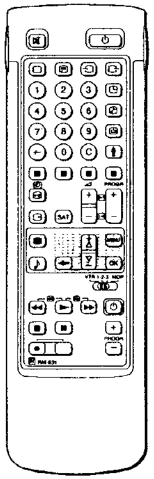


This section shows you additional presetting functions such as exchanging or skipping programme positions, captioning a station name, manual fine-tuning, and using the parental lock.

Before you begin

- Check that the Full Function side of the Remote Commander is visible
- Locate the Menu operation buttons.

PROGRAMME EXCHANGE



Exchanging Programme Positions

With this function, you can exchange the programme positions to a preferable order.

1 Press MENU to display the main menu.

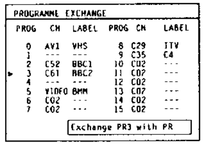
2 Select `Preset` with △+ or ▽– and press OK.
The `PRESET` menu appears.

3 Select `Programme Exchange` with △+ or ▽– and press OK.
The `PROGRAMME EXCHANGE` menu appears. (See Fig. 14.)

4 Using △+ or ▽–, select the programme position you want to exchange with another and press OK.
The colour of the selected position changes. (See Fig. 15.)

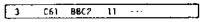
5 Using △+ or ▽–, select the programme posititon to be exchanged and press OK. Now the two programme positions have been exchanged. (See Fig. 16.)

6 Repeat steps 4 and 5 to exchange other programme positions.



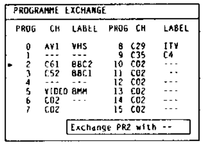
```
PROGRAMME EXCHANGE
 PROG   CH    LABEL  PROG  CH    LABEL
   0   AV1    VHS      8  C29    ITV
   1   ---    ---      9  C35    C4
   2   C52    BBC1    10  C02    ---
►  3   C61    BBC2    11  C02    ---
   4   ---    ---     12  C02    ---
   5   VIDEO  8MM     13  C02    ---
   6   C02    ---     14  C02    ---
   7   C02    ---     15  C02    ---
              [Exchange PR3 with PR ]
```

Fig. 14.



```
 3    C61   BBC2   11   ---
```

Fig. 15.



```
PROGRAMME EXCHANGE
 PROG   CH    LABEL  PROG  CH    LABEL
   0   AV1    VHS      8  C29    ITV
   1   ---    ---      9  C35    C4
►  2   C61    BBC2    10  C02    ---
   3   C52    BBC1    11  C02     --
   4   ---    ---     12  C02    ---
   5   VIDEO  8MM     13  C02    ---
   6   C02    ---     14  C02    ---
   7   C02            15  C02    ---
              [Exchange PR2 with -- ]
```

Fig. 16.

For higher programme positions:
The display scrolls automatically.

Tuning in a Channel Temporarily

You can tune in a channel temporarily, even when it has not been preset. Use the buttons on the Full-Function side of the Remote Commander.

1 Press C on the Remote Commander.
The indication "C" appears on the screen.

2 Enter the double-digit channel number using the number buttons (e.g. for channel 4, first press 0, then 4).
The channel appears.
However, the channel will not be stored.

If you have made a mistake:
Press ⬅ to go back to the previous position.

To go back to main menu:
Keep pressing ⬅.

To go back to the normal TV picture:
Press MENU.

MANUAL PROGRAMME PRESET

Skipping Programme Positions

You can skip unused programme positions when selecting programmes with the PROGR +/- buttons. However, the skipped programmes may still be called up when you use the number buttons.

1 Press MENU to display the main menu.

2 Select `Preset` with △+ or ▽– and press OK.
The `PRESET` menu appears.

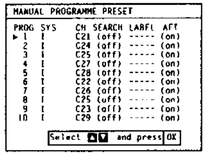
3 Select `Manual Programme Preset` with △+ or ▽– and press OK.
The `MANUAL PROGRAMME PRESET` menu appears. (See Fig.17.)

4 Using △+ or ▽–, select the programme position which you want to skip and press OK.
The "SYSTEM" position changes colour.

5 Press △+ or ▽– until – – – appears in the SYSTEM position. (See Fig. 18.)

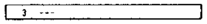
6 Press OK. (See Fig. 19.)
When you select programmes using the PROGR +/– buttons, the programme position will be skipped.

7 Repeat steps 4 to 6 to skip other programme positions.



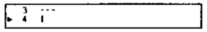
```
MANUAL PROGRAMME PRESET
PROG  SYS    CH  SEARCH  LABEL  AFT
► 1    I     C21 (off)   -----  (on)
  2    I     C24 (off)   -----  (on)
  3    I     C25 (off)   -----  (on)
  4    I     C27 (off)   -----  (on)
  5    I     C28 (off)   -----  (on)
  6    I     C22 (off)   -----  (on)
  7    I     C26 (off)   -----  (on)
  8    I     C25 (off)   -----  (on)
  9    I     C23 (off)   -----  (on)
 10    I     C29 (off)   -----  (on)
       [Select ▲▼  and press|OK]
```

Fig. 17.



```
  3  ---
```

Fig. 18.



```
  3  ---
► 4  I
```

Fig. 19.

MANUAL PROGRAMME PRESET

Captioning a Station Name

You can "name" a channel or an input video source using up to five characters (letters or numbers) to be displayed on the TV screen (e.g. BBC1). Using this function, you can easily identify which channel or video source you are watching.

1 Press MENU to display the main menu.

2 Select `Preset` with △+ or ▽– and press OK.
The `PRESET` menu appears.

3 Select `Manual Programme Preset` with △+ or ▽– and press OK.
The `MANUAL PROGRAMME PRESET` menu appears. (See Fig. 20.)

4 Using △+ or ▽–, select the programme position you want to caption and press OK repeatedly until the first element of the LABEL position is highlighted.

5 Select a letter or number with △+ or ▽– and press OK.The next element will be highlighted.
Select other characters in the same way. If you want to leave an element blank, select – and press OK. (See Fig. 21.)

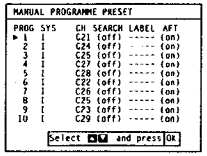
6 After selecting all the characters, press OK repeatedly until the cursor appears by the next programme position (at the left margin). Now the caption you chose is stored. (See Fig. 22.)

7 Repeat steps 5 and 6 to caption names for other channels.

If you have made a mistake:
Press ⬅ to go back to the previous position.

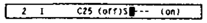
To go back to main menu:
Keep pressing ⬅.

To go back to the normal TV picture:
Press MENU.



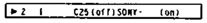
```
MANUAL PROGRAMME PRESET
PROG  SYS    CH  SEARCH  LABEL  AFT
► 1    I     C21 (off)   -----  (on)
  2    I     C24 (off)   -----  (on)
  3    I     C25 (off)   -----  (on)
  4    I     C27 (off)   -----  (on)
  5    I     C28 (off)   -----  (on)
  6    I     C22 (off)   -----  (on)
  7    I     C26 (off)   -----  (on)
  8    I     C25 (off)   -----  (on)
  9    I     C23 (off)   -----  (on)
 10    I     C29 (off)   -----  (on)
       [Select ▲▼  and press|OK]
```

Fig. 20.



```
  2   I       C25 (off)S█--- (on)
```

Fig. 21.



```
► 2   I       C25(off)SONY-  (on)
```

Fig. 22.

MANUAL PROGRAMME PRESET

Manual Fine-Tuning

Normally, the AFT(automatic fine-tuning) is already operating. However, if the picture is distorted, you can use the manual fine tuning function to obtain better picture reception.

1 Press MENU to display the main menu.

2 Select `Preset` with △+ or ▽– and press OK.
The `PRESET` menu appears.

3 Select `Manual Programme Preset` with △+ or ▽– and press OK.
The `MANUAL PROGRAMME PRESET` menu appears. (See Fig. 23.)

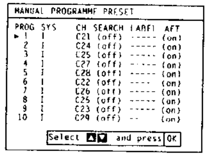
4 Using △+ or ▽– , select the programme position corresponding to the channel which you want to manually fine-tune, and press OK repeatedly until the AFT position changes colour.

5 Fine-tune the channel with △+ or ▽– so that you get the best TV reception. As you press the cursor buttons, the frequency changes from –15 to +15. (See Fig. 24.)

6 After fine tuning, press OK.
The cursor appears beside the next programme position (at the left margin). (See Fig. 25.) Now the fine-tuned level is stored.

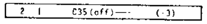
7 Repeat steps 4 to 6 to fine-tune other channels.

To reactivate AFT (automatic fine tuning):
Repeat from the beginning and select "ON" in step 5.



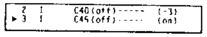
```
MANUAL PROGRAMMF PRESET
PROG  SYS     CH  SEARCH  LABEL  AFT
▸ 1    I      C21 (off)  -----  (on)
  2    I      C24 (off)  -----  (on)
  3    I      C25 (off)  -----  (on)
  4    I      C27 (off)  -----  (on)
  5    I      C28 (off)  -----  (on)
  6    I      C22 (off)  ----   (on)
  7    I      C26 (off)  -----  (on)
  8    I      C25 (off)  -----  (on)
  9    I      C23 (off)  -----  (on)
 10    I      C29 (off)  --     (on)
        Select ▲▼ and press OK
```

Fig. 23.



```
  2   I     C35(off)---      (-3)
```

Fig. 24.



```
  2   I     C40(off)-----    (-3)
▸ 3   I     C45(off)-----    (on)
```

Fig. 25.

PARENTAL LOCK

Parental Lock

You can prevent undesirable broadcasts from appearing on the screen. We suggest you use this function to prevent children from watching programmes which you consider unsuitable.

1 Press MENU to display the main menu.

2 Select `Preset` with △+ or ▽– and press OK.
The `PRESET` menu appears.

3 Select `Parental Lock` with △+ or ▽– and press OK.
The `PARENTAL LOCK` menu appears. (See Fig. 26.)

4 Using △+ or ▽–, select the programme position you want to block and press OK.
The CH and LABEL, of the selected programme number, change colour indicating that this programme is now blocked.
(See Fig. 27.)

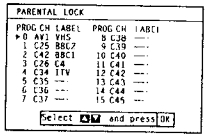
5 Repeat step 4 to block other programme positions.

Cancelling blocking

1 On the `PARENTAL LOCK` menu, select the programme position you want to unblock with △+ or ▽–.

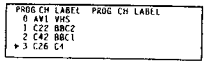
2 Press OK.
The CH and LABEL change to normal colour indicating that the blocking has been cancelled.

If you try to select a programme that has been blocked:
The message "LOCKED" appears on the blank TV screen.



```
PARENTAL LOCK
PROG CH  LABEL   PROG CH  LABEL
▸0  AV1  VHS       8 C38  ---
 1  C25  BBC2      9 C39  ---
 2  C42  BBC1     10 C40  ---
 3  C26  C4       11 C41  ---
 4  C34  ITV      12 C42  ---
 5  C35  ---      13 C43  ---
 6  C36  ---      14 C44  ---
 7  C37  ---      15 C45  ---
     Select ▲▼ and press OK
```

Fig. 26.



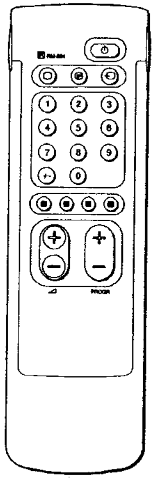
```
PROG CH  LABEL   PROG CH LABEL
 0  AV1  VHS
 1  C22  BBC2
 2  C42  BBC1
▸3  C26  C4
```

Fig. 27.

Operating Instructions

Watching the TV

This section explains the basic functions you use while watching TV. Most of the operations can be done using the simple side of the Remote Commander.



If no picture appears when you depress ⏼ on the TV

and if the standby indicator on the TV is lit, the TV is in standby mode. Press ▢ or one of the number buttons to switch it on.

Switching the TV on and off

Switching on

Depress ⏼on the TV.

Switching off temporarily

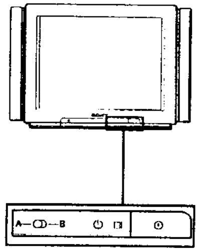
Press ⏻ on the Remote Commander.
The TV enters standby mode and the standby indicator on the front of the TV lights up.

To switch on again

Press ▢, PROGR +/–, or one of the number buttons on the Remote Commander.

Switching off completely

Depress ⏼ on the TV.



Selecting TV Programmes

Press PROGR +/– or press number buttons.

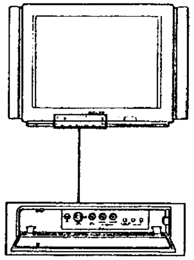
To select a double-digit number

Press -/– –, then the numbers.
For example, if you want to choose 23, press -/– –, 2, and 3.

Adjusting the Volume

Press ⊿ +/–.

Operating the TV Using the Buttons on the TV



With the buttons on the TV, you can select programmes, adjust the volume, and select video input sources.

- Press P-⊿-⊖ button repeatedly until the programme number, ⊿ (for volume), or -⊖ (for video input picture) appears. Then adjust with the –/+ buttons.
- Press –/+ buttons to switch on the TV from the standby mode.
- Press –/+ simultaneously to reset picture and sound controls to the factory preset level (RESET symbol →•← is displayed).

Watching Teletext or Video Input

For details of the teletext operation, refer to page 19.

Watching teletext

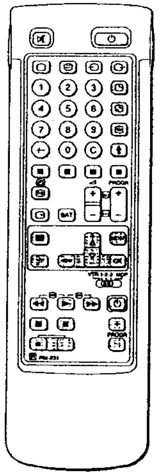
- Press ⊜ to view the teletext.
- Press three number buttons to select a page.
- Press one of the coloured buttons for fastext operation.
- Press ⊕ (PAGE +) or ⊖ (PAGE –) for the next or preceeding page.
- To go back to the normal TV picture, press ○.

For details of the video input picture, refer to page 23.

Watching a video input picture

Press -⊖ repeatedly until the desired video input appears. To go back to the normal TV picture, press ○.

More Convenient Functions



Use the Full-Function side of the Remote Commander.

Displaying the on screen indications

- Press ⊕ once to display all the indications. They will disappear after some seconds.
- Press ⊕ twice to have the programme number and label stay on screen. Press twice again to make indications disappear.

Muting the sound.

Press 🔇.
To resume normal sound, press 🔇.again.

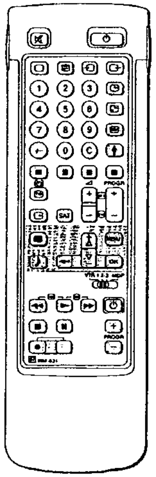
Displaying the time

Press ⊙. This function is available only when teletext is broadcast.
To make the time display disappear, press ⊙ again.

Adjusting and Setting the TV Using the Menu

PICTURE CONTROL

SOUND CONTROL



Adjusting the Picture and Sound

Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste. In addition, you can change the aspect ratio of the TV display for wide screen effect, or set the resolution to obtain a higher quality picture. You can also select dual sound (bilingual) programmes when available or adjust the sound for listening with the headphones (∩).

1 Press ● (for picture) or ♪ (for sound) on the Remote Commander.

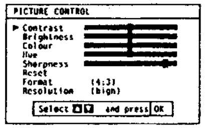
or

Press MENU and select `Picture Control` or `Sound Control`, then press OK.
The `PICTURE CONTROL` or `SOUND CONTROL` menu appears. (See Fig. 28 or Fig. 29)

2 Using △+ or ▽–, select the item you want to adjust and press OK.The selected item changes colour. (See Fig. 30)

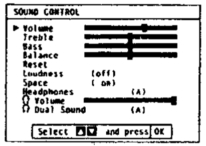
3 Adjust the setting with △+ or ▽ – and press OK.
The cursor appears beside the next item (at the left margin). (See Fig. 31)
For the effect of each control, see the table below.

4 Repeat steps 2 and 3 to adjust other items.



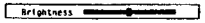
PICTURE CONTROL
▶ Contrast
Brightness
Colour
Hue
Sharpness
Reset
Format (4:3)
Resolution (high)
Select ▲▼ and press OK

Fig. 28.



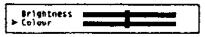
SOUND CONTROL
▶ Volume
Treble
Bass
Balance
Reset
Loudness (off)
Space (on)
Headphones (A)
∩ Volume
∩ Dual Sound (A)
Select ▲▼ and press OK

Fig. 29.



Brightness

Fig. 30.



Brightness
▶ Colour

Fig. 31.

If you have made a mistake:
Press ← to go back to the previous position.
To go back to the main menu:
Keep pressing ←.
To go back to the normal TV picture:
Press MENU.

Note:
HUE is only available for NTSC colour system and RESOLUTION does not work for SECAM colour system.

Note on LINE OUT:
The audio level and the dual sound mode output from the ⊖• jack on the rear correspond to the HEADPHONES VOLUME and DUAL SOUND settings.

When watching a video input source with stereo sound:
You can select DUAL SOUND to change the sound.

Effect of each control

PICTURE CONTROL	Effect	
Contrast	Less ——I—— More	
Brightness	Darker ——I—— Brighter	
Colour	Less ——I—— More	
Hue	Greenish ——I—— Reddish	
Sharpness	Softer ——I—— Sharper	
Reset	Resets picture to the factory preset levels.	
Format	4 : 3 : Normal	16 : 9 : Wide screen effect
Resolution	Normal	high : Obtain a higher quality picture

SOUND CONTROL	Effect	
Volume	Less —I— More	
Treble	Less —I— More	
Bass	Less —I— More	
Balance	More left —I— More right	
Reset	Resets sound to the factory preset levels.	
Loudness	off : Normal	on : When listening to low volume sound.
Space	off : Normal	on : Obtain acoustic sound effect.
Dual Sound	A : left channel B : right channel stereo mono The selected mode of the A-◯-B indicator on the TV lights up. (for NICAM broadcasts see next page)	
Headphones:		
∩ Volume	Less —I— More	
∩ Dual Sound	A : left channel B : right channel STEREO MONO	

*Selecting Nicam Broadcasts**

This Sony TV has been designed to select Nicam broadcasts when available. Whenever a Nicam broadcast is received, "NICAM" appears briefly on the screen. When the Nicam programme ends, or you switch channels to one without Nicam, the A-Ⓓ-B indicators, on the TV will switch off.

Nicam programmes can be broadcast in two ways. You may select the sound you want to hear in either of these by first following the instructions explained on page 16.

Service Being Broadcast	**Action**	**Effect**	**Indication on the TV A-Ⓓ-B**	
Stereo	Press △+ or ▽–	Stereo Nicam (Mono 2-Channel)	▬	▬
		mono	▭	▭
Press △+ or ▽– again to return to stereo Nicam (mono 2-channel)				
Bilingual	press △+ or ▽–	Channel A Nicam	▬	▭
		Channel B Nicam	▭	▬
		mono	▭	▭
Press △+ or ▽– again to return to channel A Nicam				

* Depending on availability of service.

PROGRAMME TABLE

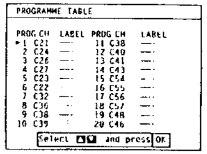
To go back to the normal TV picture:
Press MENU.

Using the Programme Table

On this table, you can see which channel is preset to which programme position. You can also select programmes using this table.

1 From the main menu, select `Programme Table` with △+ or ▽– and press OK.
The `PROGRAMME TABLE` menu appears. (See Fig. 32)
To scroll to higher programme numbers, press ▽–.

2 To select a programme using this menu select the programme number with △+ or ▽– and press OK.
The selected programme appears.



PROGRAMME TABLE

PROG	CH	LABEL	PROG	CH	LABEL
▸1	C21	—	11	C38	—
2	C24	—	12	C40	—
3	C26	—	13	C41	—
4	C27	—	14	C43	—
5	C23	—	15	C54	—
6	C22	—	16	C55	—
7	C32	—	17	C56	—
8	C36	—	18	C57	—
9	C38	—	19	C48	—
10	C39	—	20	C46	—

Select ▲▼ and press OK

Fig. 32.

TIMER

To switch off the timer:
Select "OFF" in step 3.

To check the remaining time:
Press ⊕.

Using the Sleep Timer

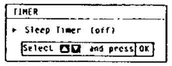
You can select a time period after which the TV automatically switches into standby mode.

1 From the main menu, select `Timer` with △+ or ▽– and press OK.
The `TIMER` menu appears. (See Fig. 33.)

2 Press OK.
The time period option changes colour.

3 Select the time period with △+ or ▽–.
The time period (in minutes) changes as follows:
10→20→30→40→50→60→70→80→90
↑———— OFF ————┘

4 After selecting the time period, press OK.
The cursor moves back to the left margin and the timer starts counting.
One minute before the TV switches into standby mode, a message is displayed on the screen.



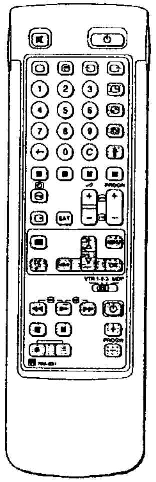
TIMER

▸ Sleep Timer (off)

Select ▲▼ and press OK

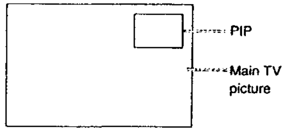
Fig. 33.

PIP (Picture In Picture)



Note
RGB input source cannot be displayed in PIP.

With this function you can display a "PIP screen" (small picture) within the main TV picture. In this way you can watch or monitor the video output from any connected equipment (for example from a VTR) while watching TV or vice versa. For information about connection of other equipment, refer to page 22.



Switching PIP on and off

Press ◔.
The PIP screen will be displayed. The PIP picture will come from the source chosen when the TV was last used.

To switch PIP off
Press ◔ again.

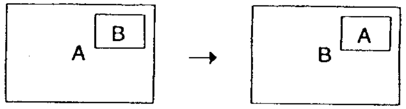
Selecting a PIP source

Press ↑.
The symbol ↑ will be displayed at the bottom, left-hand corner of the screen.
Press ⇥ repeatedly until the desired PIP source is indicated (e.g. TV, AV1, AV2, YC2, AV3, YC3, AV4, YC4).

Note
If no video source has been connected, the PIP picture will be noisy or dark.

Swapping screens

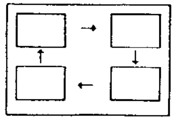
Press ⊛.
The main screen will switch the picture with the PIP screen.



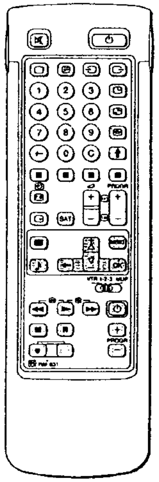
Note
If a TV programme is on the PIP screen and a video source on the main picture, and you want to change channels, first press ↑ and then the programme buttons or PROGR +/–.

Changing the position of the PIP

Press ⊞ repeatedly to change the position of the PIP screen within the main screen. There are four different positions available.



Teletext



TV stations broadcast an information service called Teletext via the TV channels. Teletext service allows you to receive various information pages such as weather reports or news at any time you want. For advanced teletext operation, use the buttons on the Full-Function side of the Remote Commander.

Note:
Teletext errors may occur if the broadcasting signals are weak.

With the simple side of the Remote Commander:
You can switch teletext on and off, operate Fastext, and directly select page numbers.

Direct Access Functions

Switching Teletext on and off

1 Select the TV channel which carries the teletext broadcast you want to watch.

2 Press ⊜ to switch on teletext.
A teletext page will be displayed (usually the index page).If there is no teletext broadcast, "No text available" is displayed on the informa-tion line at the top of the screen.

To switch teletext off
Press ○.

Selecting a teletext page

With direct page selection

Use the number buttons to input the three digits of the chosen page number.
If you have made a mistake, type in any three digits. Then re-enter the correct page number.

With page-catching

1 Select a teletext page with a page overview (e.g. index page).

2 Press OK. Using △+ or ▽–, select the desired page. "Page Catching" will be displayed on the information line. Press OK. The requested page will appear in a few seconds.

Press ⊜ to resume normal teletext reception.

Accessing next or preceding page

Press ⊕ (PAGE +) or ⊖ (PAGE –).
The next or preceding page appears.

Superimposing the teletext display on the TV programme

- Press ⊜ once in teletext mode or twice in TV mode.
- Press ⊜ again to resume normal teletext reception.

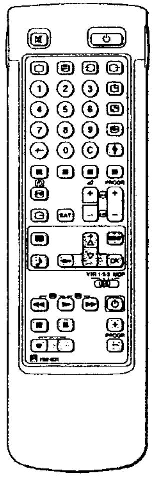
Preventing a teletext page from being updated

- Press ⊞ (HOLD). The HOLD symbol "⊞" is displayed on the information line.
- Press ⊜ to resume normal teletext reception.

Using Fastext

With Fastext you can access pages with one key stroke.When a Fastext page is broadcast, a colour-coded menu will appear at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons on the Remote Commander.
Press the corresponding coloured button on the Remote Commander which corresponds to the colour-coded menu. The page will be displayed after some seconds.

Note:
Fastext operation is only possible, if the TV station broadcasts Fastext signals.



Note:
Some of the features may not be available depending on the Teletext service.

Using the Teletext Menu

This TV is provided with a menu-guided teletext system. When teletext is switched on, you can use the menu buttons to operate the teletext menu. Select the teletext menu functions in the following way:

1 Press MENU. The menu will be superimposed on the teletext display. (See Fig. 34)

2 Using △+ or ▽–, select the teletext function you want and press OK. (See Fig. 35)

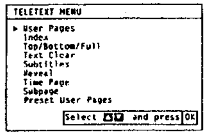


Fig. 34.

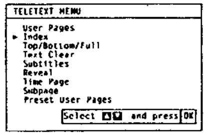


Fig. 35.

USER PAGES/PRESET USER PAGES

See page 19 for information about presetting and operating the user pages.

INDEX

The index will give you an overview of the contents of the teletext and the page numbers.

TOP/BOTTOM/FULL

For convenient reading of a teletext page, you can enlarge the teletext display with the ability to scroll up and down the screen. After having selected the function, an information line `Top/Bottom/Full` will be displayed. (See Fig. 36)

Press △+ for `Top` to enlarge the upper half. For `Bottom` keep pressing ▽–, to enlarge the lower half. Press OK for `Full` to resume the normal size.

Press ⊜ to resume normal teletext reception.

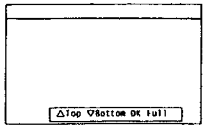


Fig. 36.

TEXT CLEAR

After having selected the function, you can watch a TV programme while waiting for a requested teletext page to be captured (The symbol changes colour) (see Fig. 37).

Press ⊜ to view the requested page.

Fig. 37.

SUBTITLES

Your teletext service will inform you if a TV programme is subtitled. After having selected the function the subtitles will be displayed.

Note on Subtitles:
If the subtitles are not broadcast on page 888, please select the subtitle page using the number buttons.

REVEAL

Sometimes pages contain concealed information, such as answers to a quiz. The reveal option lets you disclose the information. After having selected the function, an information line "REVEAL ON/OFF" will be displayed. (See Fig. 38)

Using △+ or ▽–, select ON to reveal the information or OFF to conceal it again.

Press ⊜ to resume normal teletext reception.

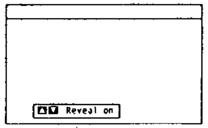


Fig. 38.

TIME PAGE

This function is not available.

SUBPAGE

You may want to select a particular teletext page from several subpages which are rotated automatically. After having selected the function, an information line will be displayed.
To select the desired subpage, enter four digits using PROGR+/– or the number buttons. (e.g. enter 0002 for the second page of a sequence).

To cancel the request:
Select "Subpage" and press OK.

If two broadcasting stations use the same Teletext:
You can preset one bank to 2 different programme positions.

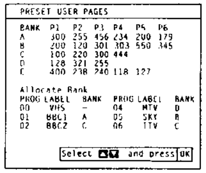
User Page Bank System

You can store up to 30 pages in the "Teletext page bank system". In this way you have quick access to the pages you watch frequently.

Storing pages

There are 5 "banks" (A to E) for 5 teletext stations. In each bank you can store 6 preferred pages (P1 to P6).

1. Press ⊜ (if Teletext is not on already) and MENU to show the TELETEXT MENU display.
2. Select `PRESET USER PAGES` with △+ or ▽– and press OK.
3. Select the desired bank with △+ or ▽– and press OK. The cursor will go to the first position (P1) of the preferred pages.
4. Input the three digits of your first preferred page with the number buttons and press OK.
   The cursor will go to the second position.
5. Repeat step 4 for the other 5 page numbers you want to preset. If you do not want to preset all 6 page numbers available, press OK without inserting any number. After having finished the presetting press OK repeatedly until the cursor appears besides the next bank at the left margin.
6. Select `Allocate Bank` with △+ or ▽– and press OK.
7. Select the programme position for which you have preset pages with △+ or ▽– and press OK. (See Fig. 39)
8. Select the desired bank with △+ or ▽– (Banks A to E are available) and press OK.
9. Repeat steps 3 to 8 for the other 4 banks available.

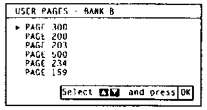


```
PRESET USER PAGES

BANK   P1   P2   P3   P4   P5   P6
A      300  255  456  234  200  179
B      200  120  301  303  550  345
C      100  220  300  444
D      128  321  255
E      400  238  240  118  127

Allocate Bank
PROG LABEL  BANK   PROG LABEL  BANK
00   VHS    –      04   MTV    D
01   BBC1   A      05   SKY    B
02   BBC2   C      06   ITV    C

              Select ▲▼  and press OK
```

Fig. 39.

Displaying User Pages

1. Select MENU.
2. Select `User Pages` with △+ or ▽– and press OK.
   A table of the stored preferred pages will be displayed.
   (See Fig. 40)
3. Select the desired page with △+ or ▽– and press OK. The page will be displayed after some seconds.

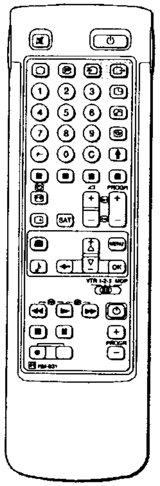


```
USER PAGES - BANK B

▸ PAGE 300
  PAGE 200
  PAGE 203
  PAGE 500
  PAGE 234
  PAGE 159

          Select ▲▼  and press OK
```

Fig. 40.

Connecting and Operating Optional Equipment

Selecting input with PROGR +/– or number buttons
You can preset video input sources to the programme positions so that you can select them with PROGR +/– or number buttons.
For details, see "Preset channels manually" on page 9.



Selecting input and output

This section explains how to view the video input picture (of the video source connected to your TV), and how to select the output signal using direct access buttons or the menu system.

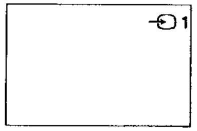
Selecting input

Press ⇥ repeatedly to select the input source.

The symbol of the selected input source will appear.

To go back to the normal TV picture

Press ▭.



Input modes

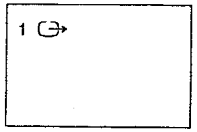
Symbol	Input signal
⇥ 1	Audio/video input through the ⇥⎍ 1 connector
⇥⎍	RGB input through the ⇥⎍ 1 connector
⇥ 2	Audio/video input through the ↦2/⇥Ⓢ2 connector
⇥Ⓢ 2	S video input through the ↦2/⇥Ⓢ2 or ⇥Ⓢ2 connector
⇥ 3	Audio/video input through ⇥3 and ⇥3 on the front
⇥Ⓢ 3	S video input through the ⇥Ⓢ3 connectors on the front (4-pin connector)
⇥ 4	Audio/video input through the ↦4/⇥Ⓢ4 connector
⇥Ⓢ 4	S video input through the ↦4/⇥Ⓢ4 or ⇥Ⓢ4 connector (4-pin connector)

You can also select the input mode using the P/◿/⇥ and –/+ buttons on the TV. In this case, first select ⇥, and then press –/+ buttons to select the input.

Selecting the output

The ↦2/⇥Ⓢ2 connector outputs the source input from the other connectors.

Press ↦ repeatedly to select the output.
The symbol of the selected output source appears.



Output modes

Symbol	↦2/⇥Ⓢ2 connector outputs
1 ↦	The audio/video signal from the ⇥⎍ 1 connector
2 ↦	The audio/video signal from the ↦2/⇥Ⓢ2 connector
2 Ⓢ↦	The audio/S video signal from the ↦2/⇥Ⓢ connector
3 ↦	The audio/video signal from the ⇥3, ⇥3 connectors
3 Ⓢ↦	The audio/S video signal from the ⇥Ⓢ3, ⇥3 connectors
4 ↦	The audio/video signal from the ↦4/⇥Ⓢ4 connector
4 Ⓢ↦	The audio/S video signal from the ↦4/⇥Ⓢ4 connector
TV↦	The audio/video signal from the ⏉ aerial terminal

Checking and selecting the input and output sources using the menu

You can display the menu to see which input sources are selected for the TV screen and PIP screen, and which output source is selected. You can also select them on the menu display.

1 Select `Video Connection` with △+ or ▽– and press OK. The `VIDEO CONNECTION` menu appears. (See Fig. 41)

You can see which source is selected for the TV and PIP input, and for the output. If you want to select the input and output on this menu, go on to the next step.

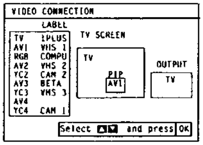
2 Select TV Screen (input source for the TV screen), PIP(input source for the PIP screen), or output (output source) with △+ or ▽– and press OK. One of the source items changes colour. (See Fig. 42)

3 Select the desired source with △+ or ▽–.
(See Fig. 43)
For details about each source, see the table on page 23.

4 Press OK.

The selected source is confirmed, and the cursor appears. (See Fig. 44)

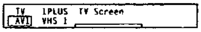
5 Repeat steps 2 to 4 to select the source for other inputs or outputs.



VIDEO CONNECTION

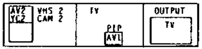
	LABEL
TV	1PLUS
AV1	VHS 1
RGB	COMPU
AV2	VHS 2
YC2	CAM 2
AV3	BETA
YC3	VHS 3
AV4	
YC4	CAM 1

Fig. 41.



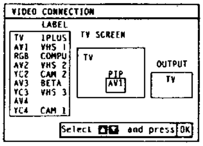
TV 1PLUS TV Screen
AV1 VHS 1

Fig. 42.



AV2 VHS 2
YC2 CAM 2

Fig. 43.



VIDEO CONNECTION

	LABEL
TV	1PLUS
AV1	VHS 1
RGB	COMPU
AV2	VHS 2
YC2	CAM 2
AV3	BETA
YC3	VHS 3
AV4	
YC4	CAM 1

Fig. 44.

Remote Control of Other Sony Equipment

You can use the TV Remote Commander to control most Sony remote-controlled video equipment such as: Beta, 8mm or VHS VTRs or video disc players.

Tuning the Remote Commander to the equipment

1 Set the VTR 1/2/3 MDP selector according to the equipment you want to control:

VTR 1: Beta or ED Beta VTR

VTR 2: 8mm VTR

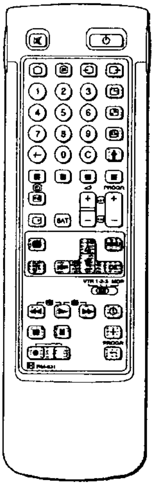
VTR 3: VHS VTR

MDP: Video disc player

2 Use the buttons indicated in the illustration to operate the additional equipment.

If your video equipment is furnished with a COMMAND MODE selector: set this selector to the same position as the VTR 1/2/3 MDP selector on the TV Remote Commander.

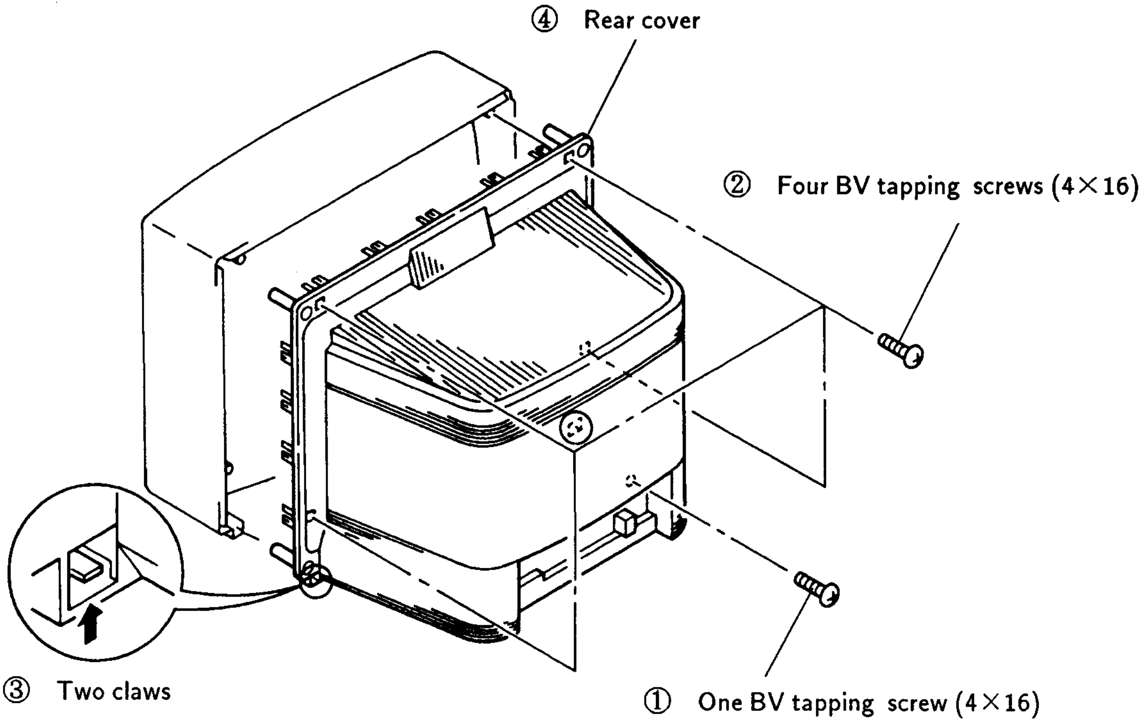
If the equipment does not have a certain function, the corresponding button on the Remote Commander will not operate.



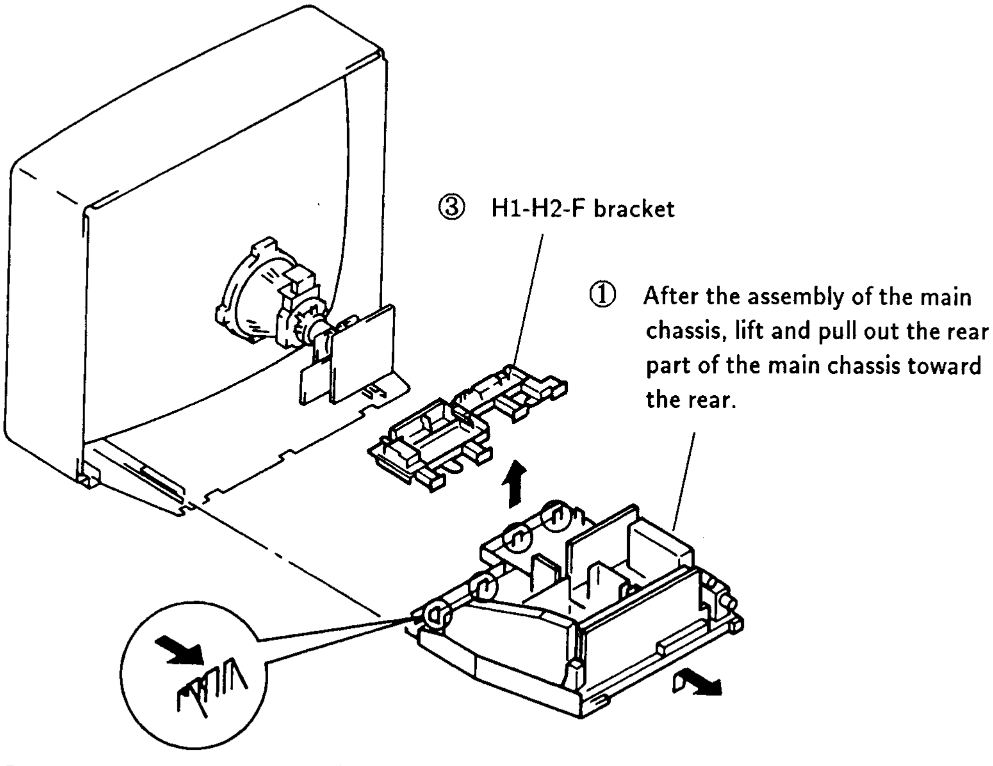
When recording
When you use the ● (record) button, make sure to press this button and the one to the right of it simultaneously.

SECTION 2
DISASSEMBLY

2-1. REAR COVER REMOVAL


④ Rear cover
② Four BV tapping screws (4×16)
③ Two claws
① One BV tapping screw (4×16)

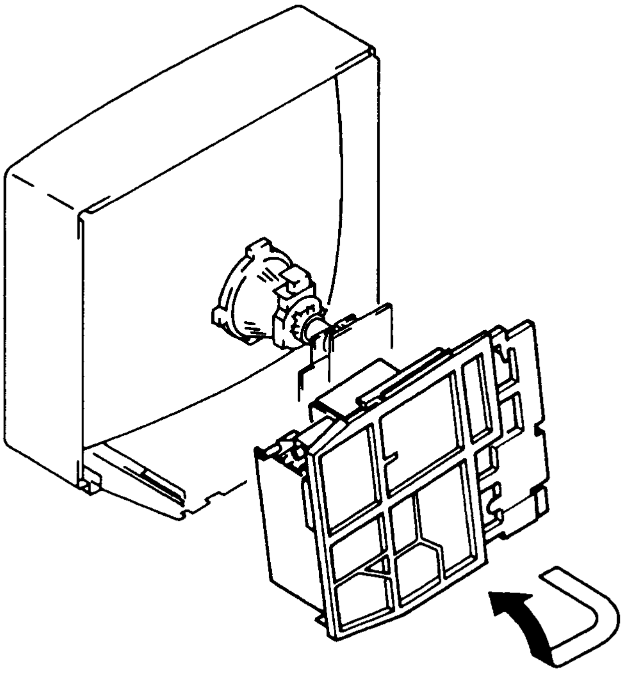
2-2. CHASSIS ASSY REMOVAL


③ H1-H2-F bracket

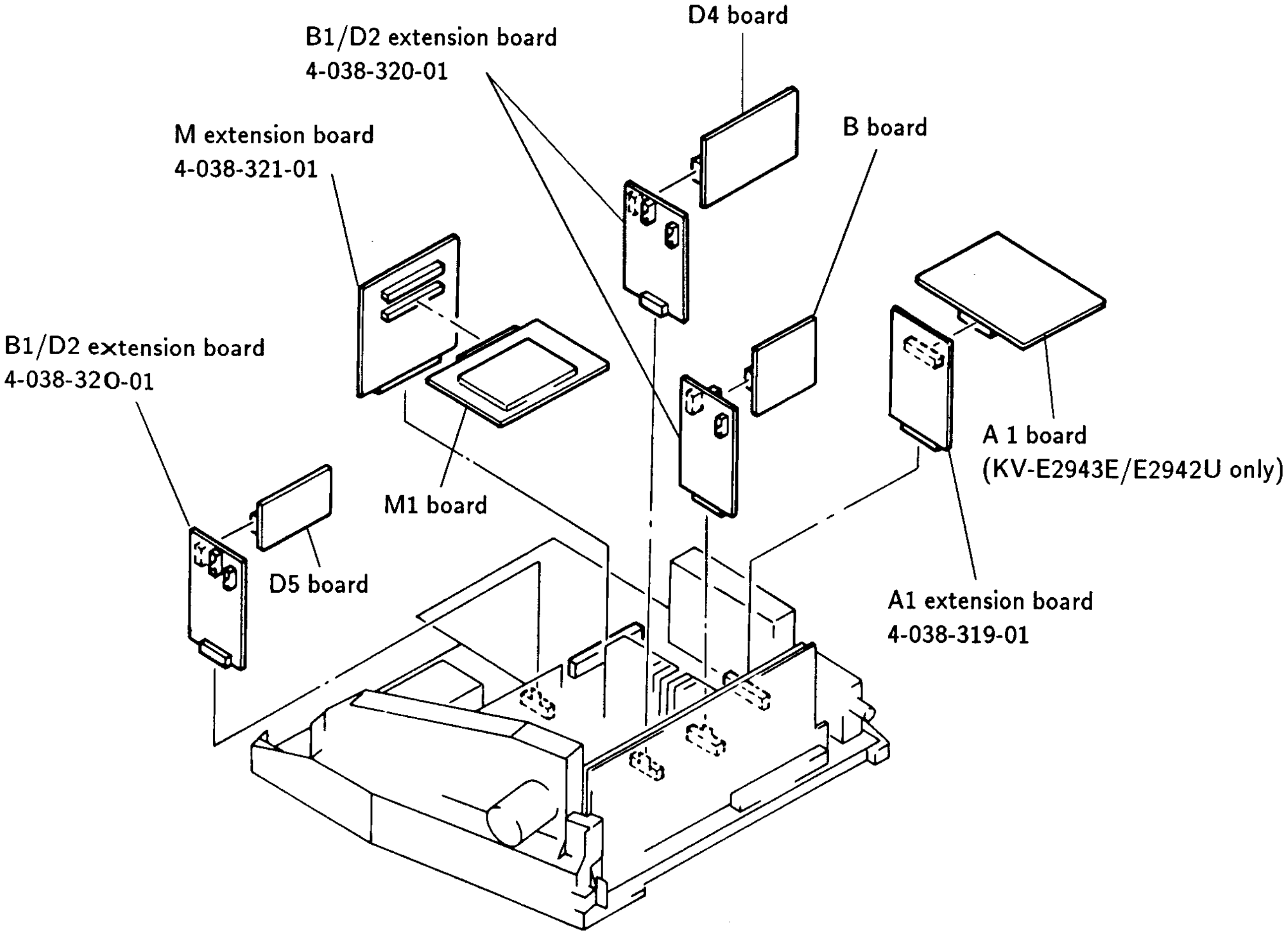
① After the assembly of the main chassis, lift and pull out the rear part of the main chassis toward the rear.

② Push the three claws of the main chassis in the direction of the arrow and remove the H1-H2-F bracket upwards.

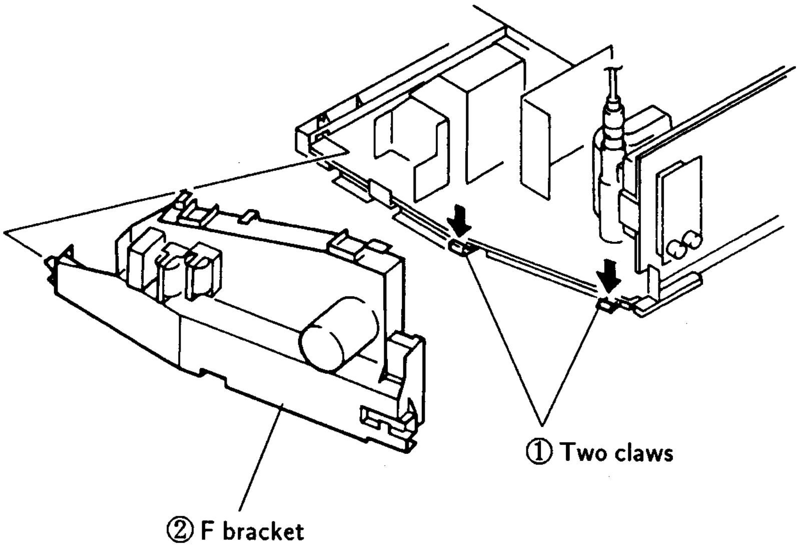
2-3. SERVICE POSITION



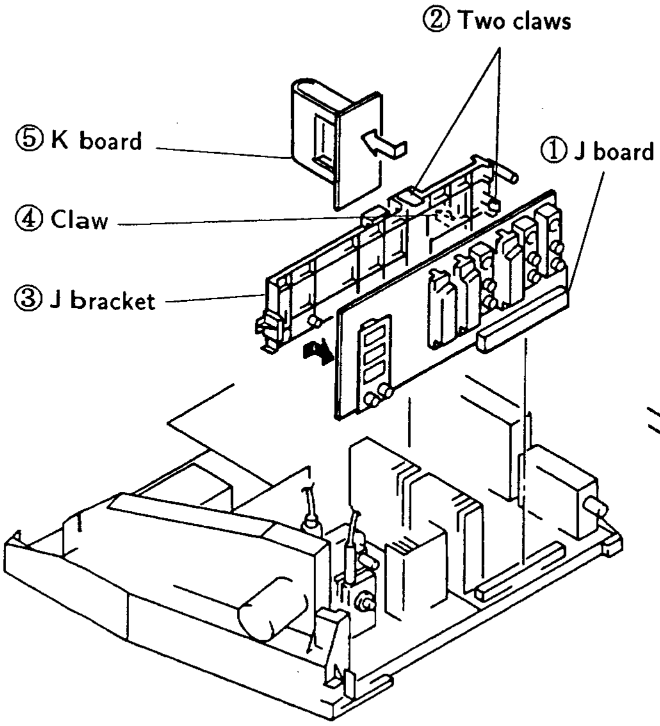
2-4. EXTENSION BOARD


D4 board
B1/D2 extension board
4-038-320-01
B board
M extension board
4-038-321-01
B1/D2 extension board
4-038-320-01
A 1 board
(KV-E2943E/E2942U only)
M1 board
D5 board
A1 extension board
4-038-319-01

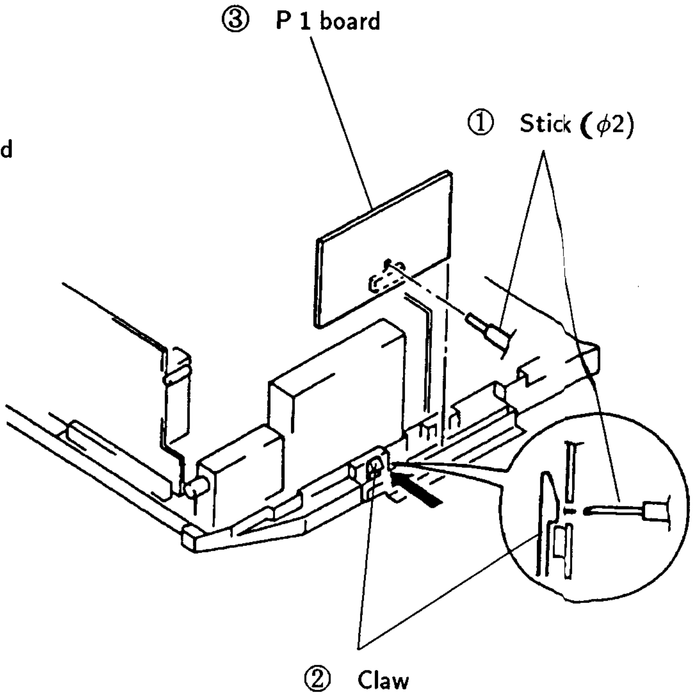
2-5. F BRACKET REMOVAL


① Two claws
② F bracket

2-6. J AND K BOARDS REMOVAL

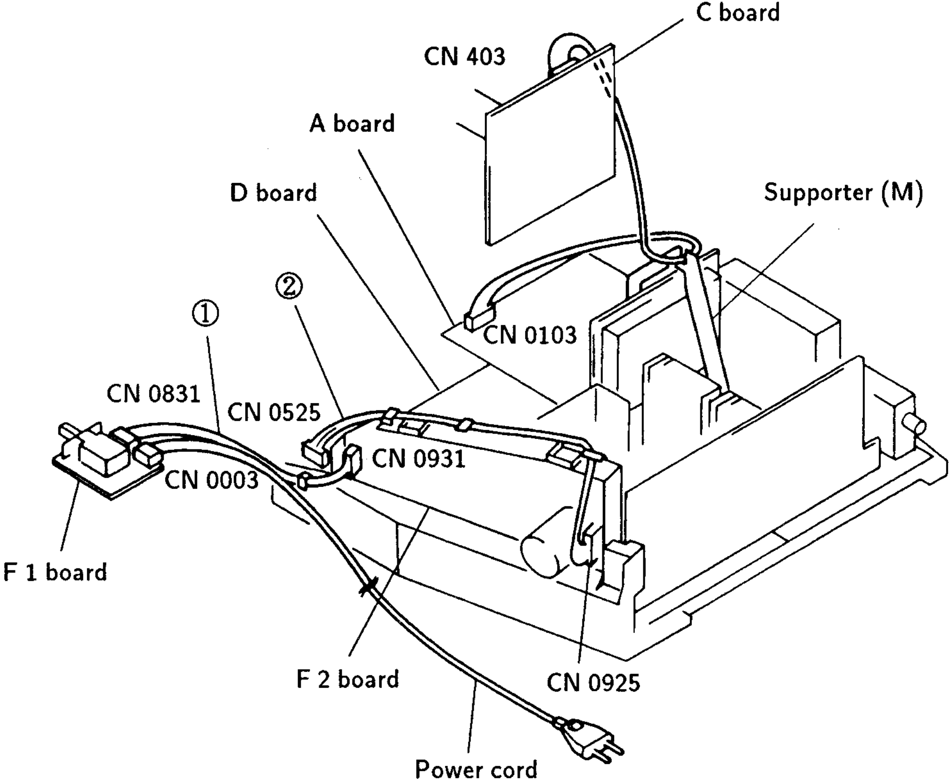

② Two claws
⑤ K board
① J board
④ Claw
③ J bracket

2-7. P 1 BOARD REMOVAL

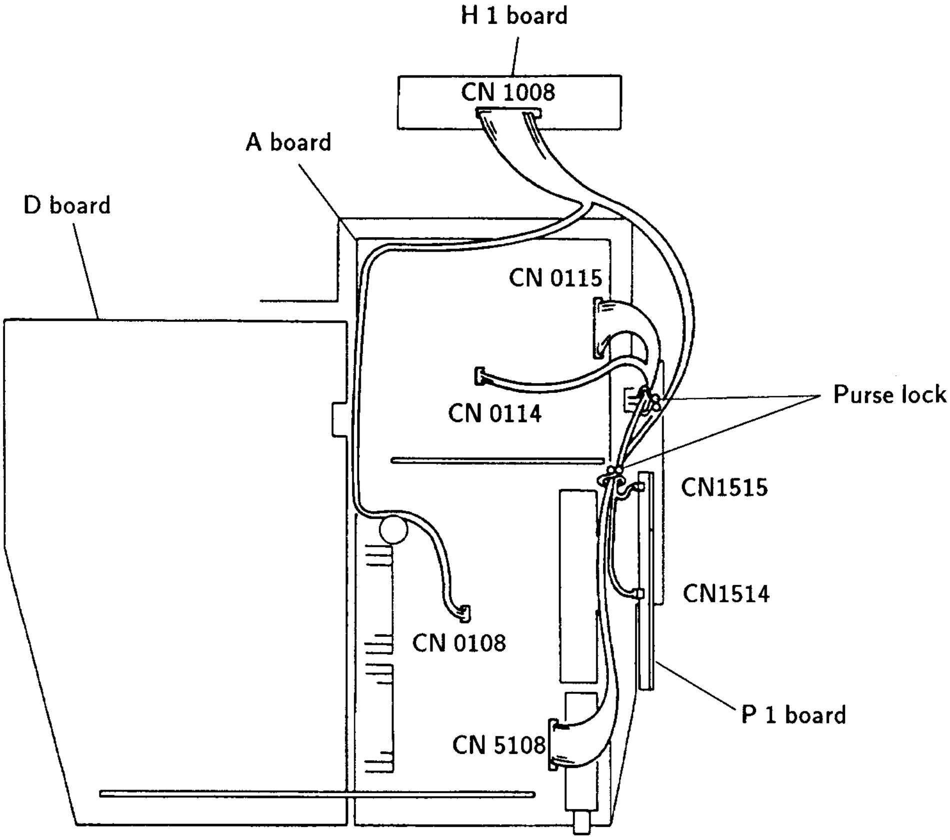

③ P 1 board
① Stick (ϕ2)
② Claw

2-8-1. WIRE DRESSING

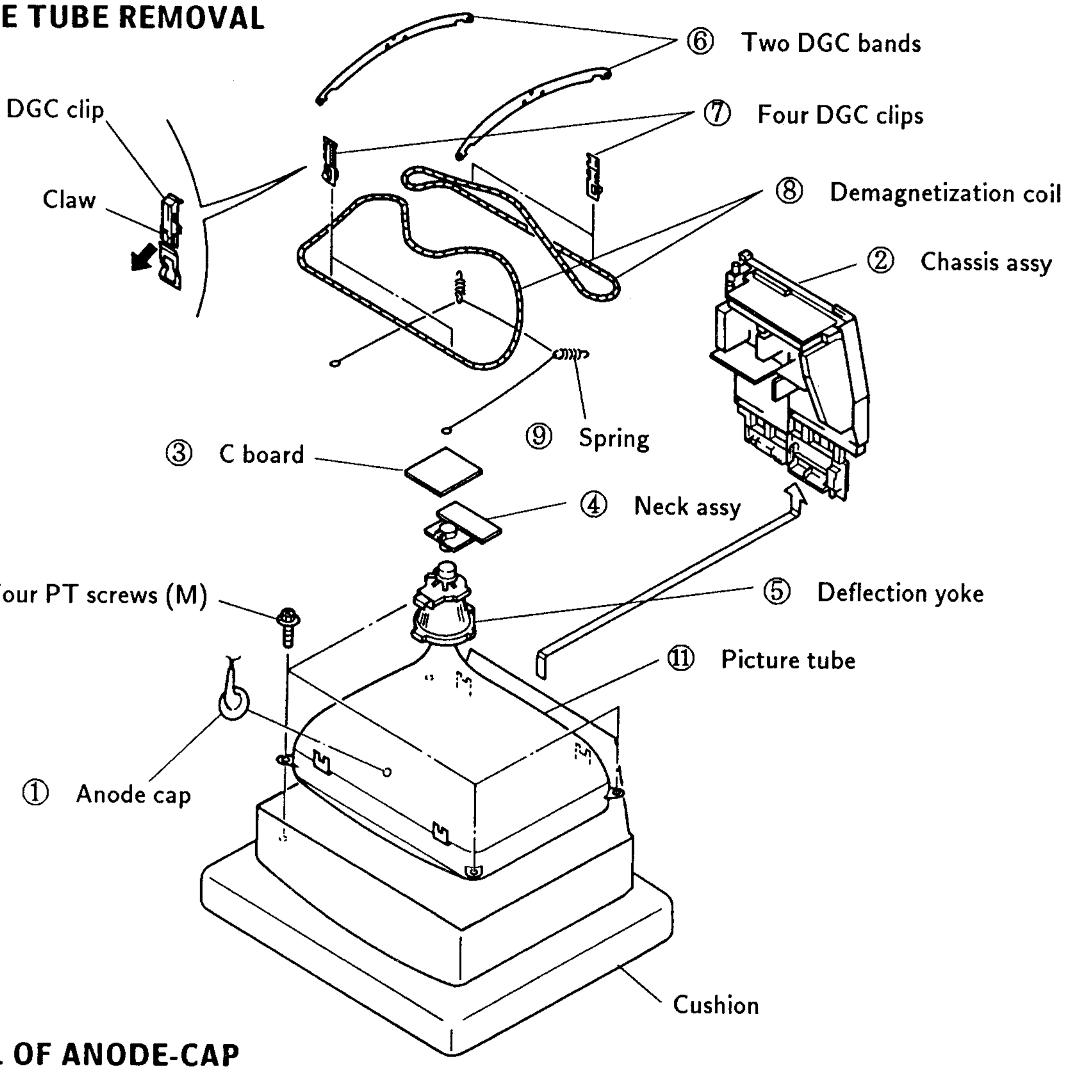
※ Keep distance between ① and ②


C board
CN 403
A board
D board
Supporter (M)
②
①
CN 0103
CN 0831
CN 0525
CN 0931
CN 0003
F 1 board
F 2 board
CN 0925
Power cord

2-8-2. WIRE DRESSING


H 1 board
CN 1008
A board
D board
CN 0115
CN 0114
Purse lock
CN1515
CN1514
CN 0108
P 1 board
CN 5108

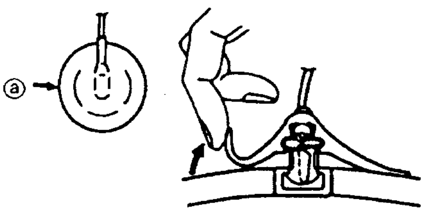
2-9. PICTURE TUBE REMOVAL


⑥ Two DGC bands
DGC clip
⑦ Four DGC clips
Claw
⑧ Demagnetization coil
② Chassis assy
⑨ Spring
③ C board
④ Neck assy
⑩ Four PT screws (M)
⑤ Deflection yoke
⑪ Picture tube
① Anode cap
Cushion

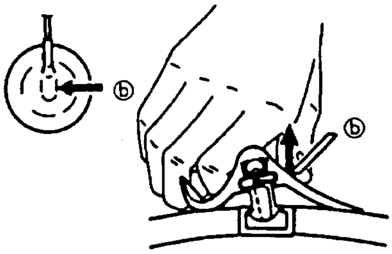
• REMOVAL OF ANODE-CAP

NOTE : Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

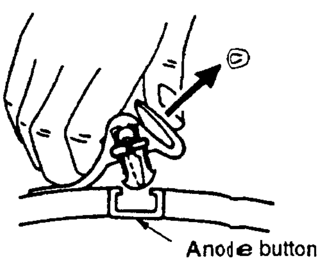
• REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.



② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.


ⓒ
Anode button

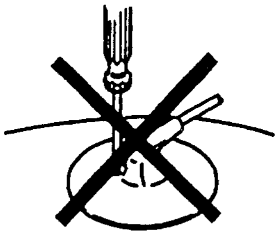
③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.

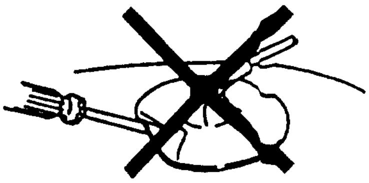
• HOW TO HANDLE AN ANODE-CAP

① Don't hurt the surface of anode-caps with sharp shaped material!

② Don't press the rubber hardly not to hurt inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.

③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.





SECTION 3

SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there is specific instruction to the contrary, carry out these adjustments with the rated power supply.
- Unless there is specific instruction to the contrary, set the controls and switches this way :

◑ Contrast ······················ 80% (or remote control normal)

☼ Brightness ······················ 50%

- Carry out the following adjustments in this order :

1. Beam landing
2. Convergence
3. Focus
4. White balance

Note: Testing equipment required.

1. Color bar/pattern generator
2. Degausser
3. DC power supply
4. Digital multimeter
5. Oscilloscope

Preparations :

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

1. Input the white signal with the pattern generator.
   Contrast } normal
   Brightness }
2. Position neck assy as shown in Fig.3-2.
3. Set the pattern generator raster signal to red.
4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side. (See Fig.3-1 - 3-3)
5. Move the deflection yoke forward and adjust so that entire screen is red. (See Fig.3-1)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Fig.3-4)

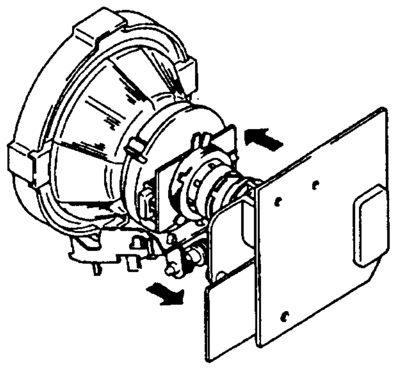


Fig.3-1

Fig.3-2

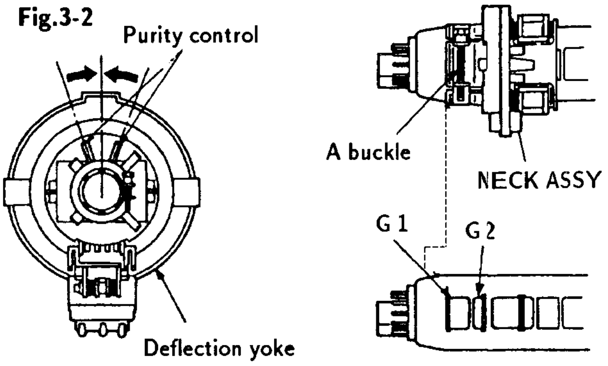
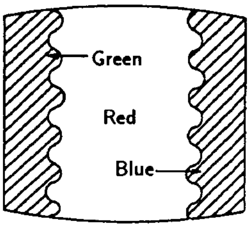

Purity control
A buckle
NECK ASSY
G1
G2
Deflection yoke

Fig.3-3


Green
Red
Blue

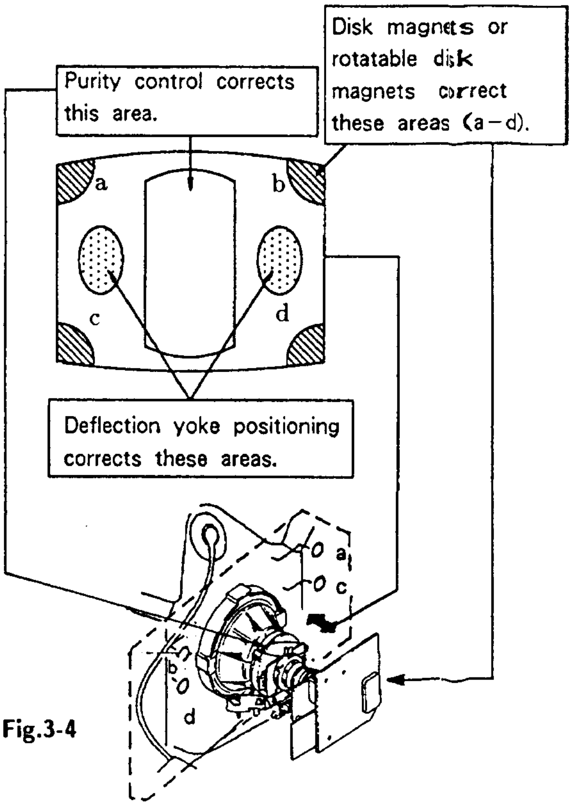

Purity control corrects this area.
Disk magnets or rotatable disk magnets correct these areas (a−d).
a
b
c
d
Deflection yoke positioning corrects these areas.
a
c
b
d

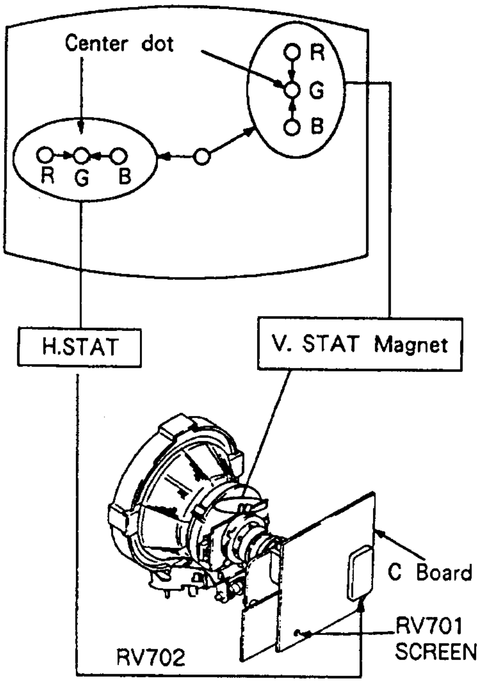
Fig.3-4

3-2. CONVERGENCE

Preparations :

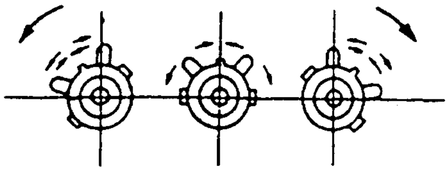
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

(1) Horizontal and vertical static convergence

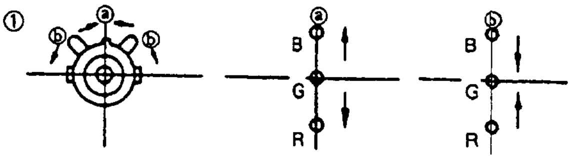


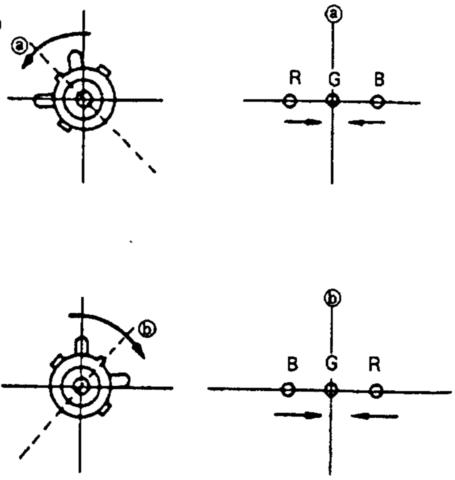
1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V. STAT magnet in the manner given below.
(In this case, the H.STAT variable resistor and the V.STAT magnet influence each other)

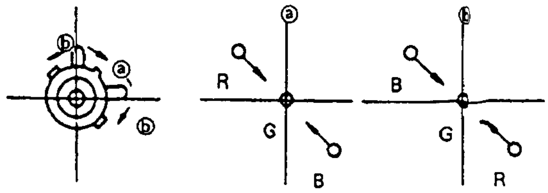
- Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.



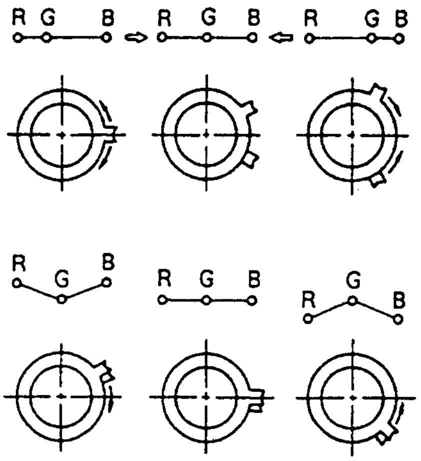
4. If the V.STAT magnet is moved in the direction of the ⓐ and ⓑ arrows, the red, green, and blue points move as shown below.

①


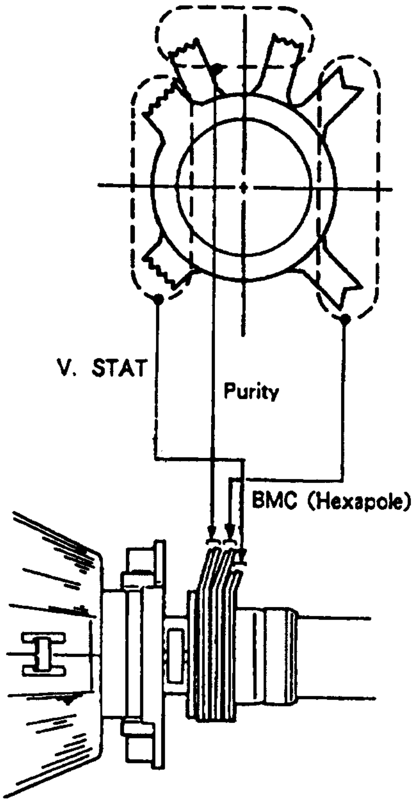
②


③


- Operation of BMC (Hexapole) Magnet


R G B
R G B
R G B
R G B
R G B
R G B

- The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking.
  Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).

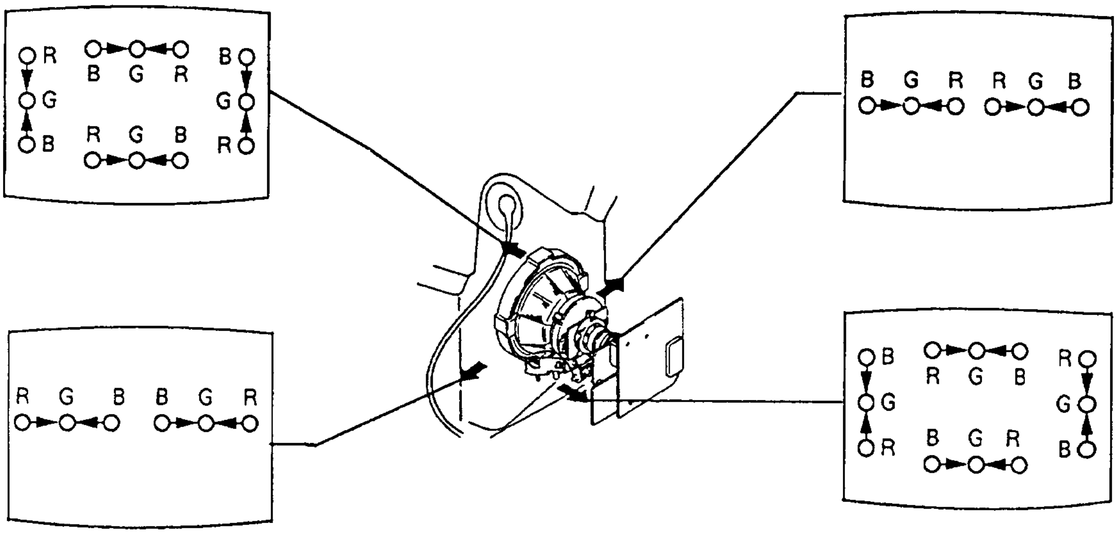

V. STAT
Purity
BMC (Hexapole)

(2)Dynamic convergence adjustment

Preparations:

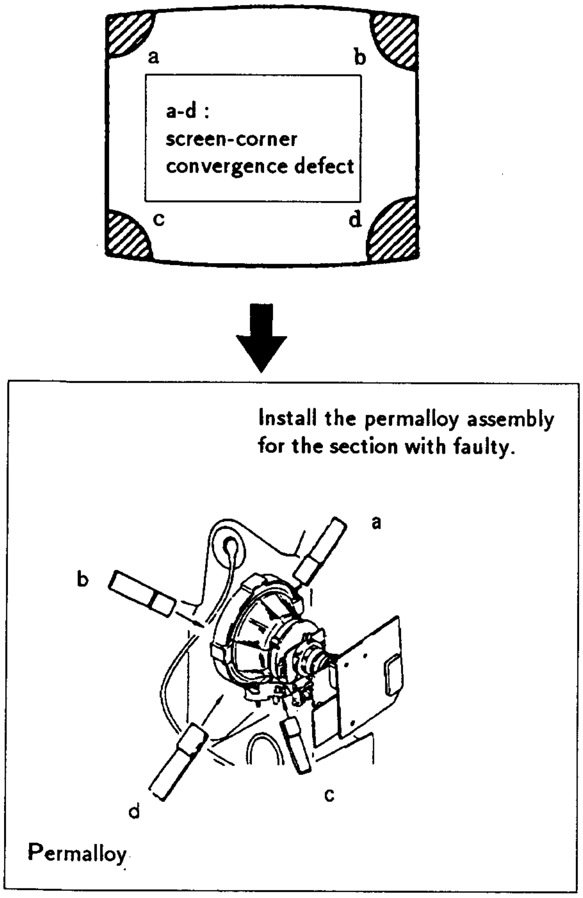
- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

1. Slightly loosen the deflection yoke screws.
2. Remove the deflection yoke spacer.
3. Move the deflection yoke as shown in the figure below and optimize the convergence.
4. Tighten the deflection yoke screws.
5. Install the deflection yoke spacer.


R G B
B G R
R G B
B G R
R G B
B G R
B G R R G B
R G B B G R
B G R
R G B
B G R
R G B
B G R
R G B

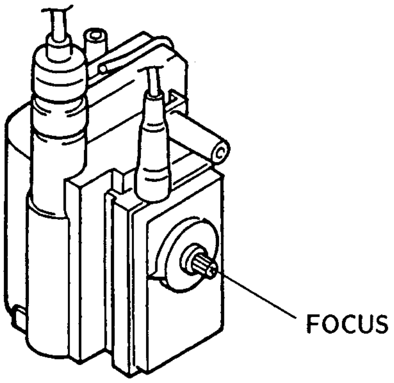
(3) Screen corner convergence

If you cannot adjust corner convergence properly, correct them with permalloy.



3-3. FOCUS

Adjust the focus to optimize the screen.



3-4. WHITE BALANCE

Screen G2 Setting

1. Input the dot signal from the pattern generator.
2. Set the picture brightness control to its lowest level.
3. Apply 180V DC to the R,G, and B cathodes with an external power supply.
4. While watching the picture, adjust G 2 control RV 701 (Screen) to the point just before the return lines disappear.

White balance adjustment

1. Receive all-white signal.
2. Enter into service mode. (Refer to the section 4 “Electrical Adjustment” to how to enter service mode.)
3. Select CXA1587S on menu.

09	SUB BRIGHT	ADJ.
10	SUB HUE	7
11	VM LEVEL	2
12	NR LEVEL	0
13	ABL MODE	0
14	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.
16	G-AUTO CUT OFF	ADJ.
17	B-AUTO CUT OFF	ADJ.
18	R-MANUAL CUT OFF	ADJ.
19	G-MANUAL CUT OFF	ADJ.
20	B-MANUAL CUT OFF	ADJ.

4. Set picture to MAX.
5. Adjust G-DRIVE B-DRIVE with ⍐, ⍗ buttons so that the white balance becomes optimum.
6. Press OK button to write the data for each item.
7. Set picture to MIN.
8. Adjust G-AUTO CUT OFF, B-AUTO CUT OFF, R-MANUAL CUT OFF, G-MANUAL CUT OFF and B-MANUAL CUT OFF with ⍐, ⍗ buttons so that the white balance becomes optimum.
9. Press OK button to write the data for each item.

SECTION 4
CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander RM-831.

HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power switch of the set while pressing any two buttons on the front panel.

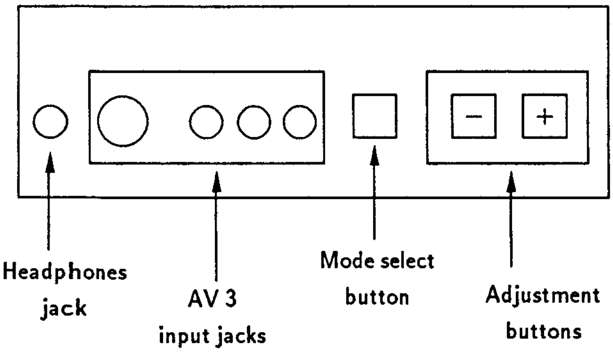


Fig.4-1

2. "TT" will appear on the upper right corner of the screen.

Command operation in service mode

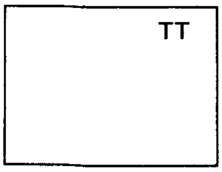


Fig.4-2

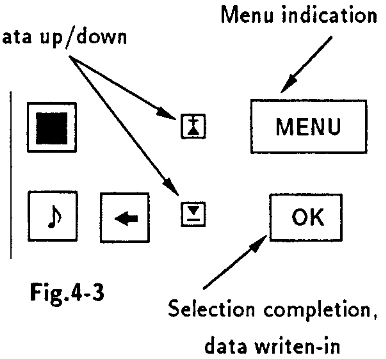
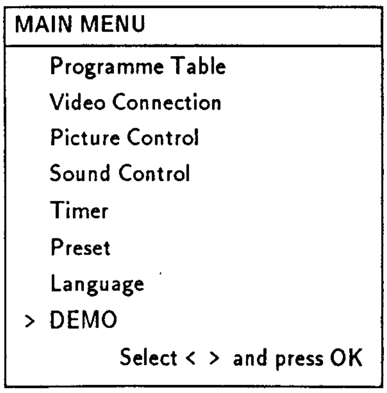

Item selection, data up/down
Menu indication
▲
▼
MENU
OK
Selection completion, data writen-in

Fig.4-3

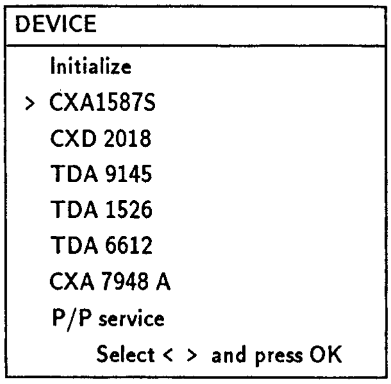
3. Press the MENU button of the commander to get the menu on screen.



MAIN MENU
Programme Table
Video Connection
Picture Control
Sound Control
Timer
Preset
Language
> DEMO
Select < > and press OK

Fig.4-4

4. Press the ▲ and ▼ buttons of the commander and move > to DEMO.
5. Press OK button to proceed to the next menu.
6. The menu of fig.4-5 will appear on screen. Select DEVICE corresponding to the adjustment item from the table on next page.



DEVICE
Initialize
> CXA1587S
CXD 2018
TDA 9145
TDA 1526
TDA 6612
CXA 7948 A
P/P service
Select < > and press OK

Fig.4-5

7. If adjustment item is CXA1587S, press the ▼ button and move > to CXA1587S.

CXA 1587 S

Item No.	Adjustment item	Data Amout
01	PICTURE	3
02	COLOR	1
03	BRIGHT	1
04	HUE	1
05	SHARPNESS	7
06	RGB PICTURE	3
07	SUB CONTRAST	ADJ.
08	SUB COLOR	ADJ.
> 09	SUB BRIGHT	ADJ.
10	SUB HUE	7
11	VM LEVEL	2
12	NR LEVEL	0
13	ABL MODE	0
14	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.

8. Press OK button to get the next selection menu.
9. Press ▼ button and move > to the adjustment item and press OK button.
10. Press the ▲ and ▼ buttons to change the data in order to comply each standard.
11. Press OK button to write data.
12. Turn off the power to quit service mode when completing the adjustment.

CXA 1587 S

01	PICTURE	53
02	COLOR	31
03	BRIGHT	31
04	HUE	31
05	SHARPNESS	7
06	RGB PICTURE	13
07	SUB CONTRAST	ADJ.
08	SUB COLOR	ADJ.
09	SUB BRIGHT	ADJ.
10	SUB HUE	7
11	VM LEVEL	2
12	NR LEVEL	0
13	ABL MODE	0
14	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.
16	G-AUTO CUT OFF	ADJ.
17	B-AUTO CUT OFF	ADJ.
18	R-MANUAL CUT OFF	ADJ.
19	G-MANUAL CUT OFF	ADJ.
20	B-MANUAL CUT OFF	ADJ.
21	GAMMA LEVEL	0
22	DC TRANSFER RATIO	3
23	DINAMIC PICTURE	0
24	Y FILTER ADJ	ADJ.
25	Y DELAY TIME	15
26	Y DELAY SWITCH 1	0
27	Y DELAY SWITCH 2	1
28	SHARPNESS LIMIT	ON
29	ALL BLK	OFF
30	H SHIFT	31
31	DAC TEST	ON
32	PRE/OVER SHOOT	12
33	SHARPNESS FO	2
34	SUB SHARPNESS	3
35	R MUTE	OFF
36	G MUTE	OFF
37	B MUTE	OFF
38	AGING 1	OFF
39	AGING 2	OFF
40	AKB OFF	ON
41	INHIBIT RGB	OFF
42	FORCED RGB	OFF
43	V/2 V	OFF
44	AXIS	PAL
45	HUE SW	OFF
46	V EXTENTION	OFF
47	AFC 1	1
48	AFC 2	0
49	AFC OFF	ON
50	REF.POSITION	0

CXD 2018 Q

01	V SIZE	ADJ.
02	V SHIFT	ADJ.
03	S CORRECTION	ADJ.
04	V LINEARITY	ADJ.
05	H SIZE	ADJ.
06	PIN AMP	ADJ.
07	TILT	ADJ.
08	UPPER CORNER	ADJ.
09	LOWER CORNER	ADJ.
10	V BOW	ADJ.
11	ANGLE	ADJ.
12	HV COMP.V	13
13	HV COMP.H	8
14	FRAME SHIFT	OFF
15	FREE RUN 60 Hz	OFF
16	SYSTEM 60 Hz	OFF
17	ASPECT WIDE	OFF
18	DOUBLE SCAM	OFF
19	INTERLACE	ON
20	H SHIFT	32
21	N/S CORRECTION	ADJ.

Typical Value (OSD based)when receiving PAL Philips pattern.

TDA 6612	ADJ.
Stereo-Separation	(30)

Should be adjusted twice 4 : 3 and 16 : 9 mode.

Y FILTER ADJUSTMENT

1. Input PAL RED pattern.
2. Connect an oscilloscope to CN 0403 ① pin (R IN) on the C board.
3. Enter into service mode and press 3, 8.
4. Adjust data by △ or ▽ to minimize the chroma element of CN 0403 ① pin.

SUB BRIGHTNESS ADJUSTMENT

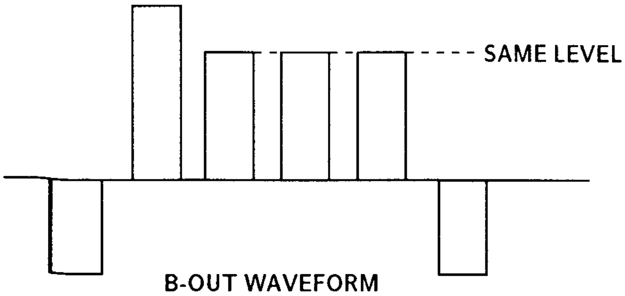
1. Input Phillips pattern.
2. Enter into service mode and press 23.
3. Adjust data so that 0-IRE of the grey scale and CUT -OFF 20-IRE glitter slightly.

SUB CONTRAST ADJUSTMENT

1. Input a video that contains small 100% area on the Black Back ground.
2. Enter into service mode and press 01 to have PIC max followed by 21.
3. Adjust data so that 2.5 Vp-p can be obtained at ① CN 0403 (R IN).

SUB COLOR ADJUSTMENT

1. Input PAL color bar.
2. Connect an oscilloscope to CN 0403 ③ pin (B IN) on the C board.
3. Enter into service mode and press 22 of CXA 1587 S, 8 SUB COLOR.
4. Adjust data so that the right sides of the waveform will be the same.



B-OUT WAVEFORM

STEREO-SEPARATION ADJUSTMENT

1. Input 1 kHz stereo signal to the L-ch and 400 Hz stereo signal to the R-ch.
2. Enter into service mode and press 19.
3. Adjust data so that sound does not leak to the R-ch and the L-ch.

DRIVE AND CUT OFF

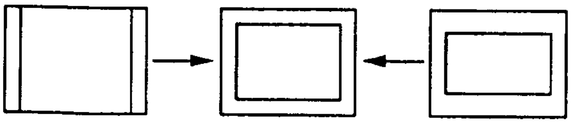
See direct test mode list attached and refer to sub brightness or such for adjustment method.

DEFLECTION SYSTEM ADJUSTMENT

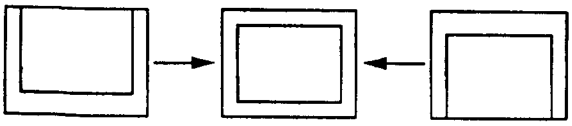
1. Enter into service mode and select CXD 2018 Q.
2. Select and adjust each item in order to get an optimum image.

01	V SIZE	ADJ.
02	V SHIFT	ADJ.
03	S CORRECTION	ADJ.
04	V LINEARITY	ADJ.
05	H SIZE	ADJ.
06	PIN AMP	ADJ.
07	TILT	ADJ.
08	UPPER CORNER	ADJ.
09	LOWER CORNER	ADJ.
10	V BOW	ADJ.
11	ANGLE	ADJ.
12	HV COMP.V	13
13	HV COMP.H	8
14	FRAME SHIFT	OFF
15	FREE RUN 60 Hz	OFF
16	SYSTEM 60 Hz	OFF
17	ASPECT WIDE	OFF
18	DOUBLE SCAM	OFF
19	NON INTERLACE	ON
20	H SHIFT	31
21	N/S CORRECTION	ADJ.

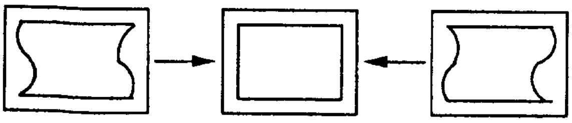
V SIZE



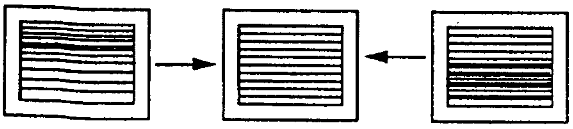
V SHIFT



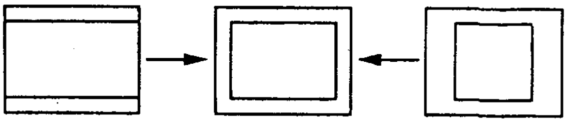
S CORRECTION



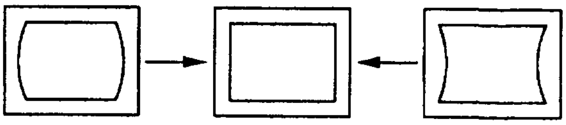
V LINEARITY



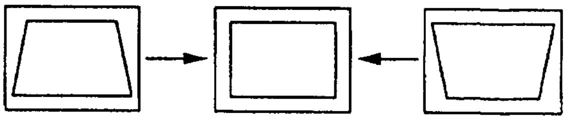
H SIZE



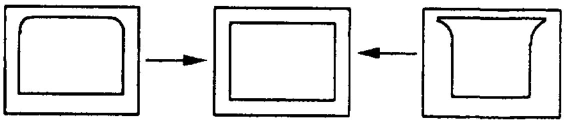
PIN AMP



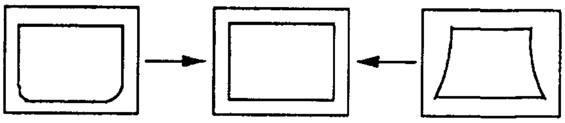
TILT



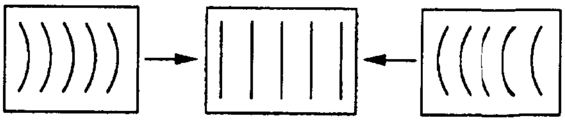
UPPER CORNER PIN



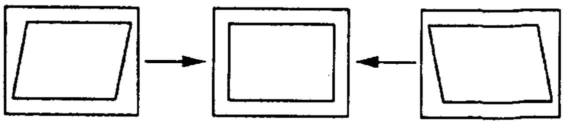
LOWER CORNER PIN



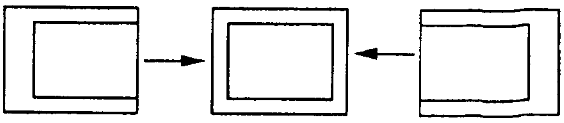
V BOW



ANGLE



H SHIFT



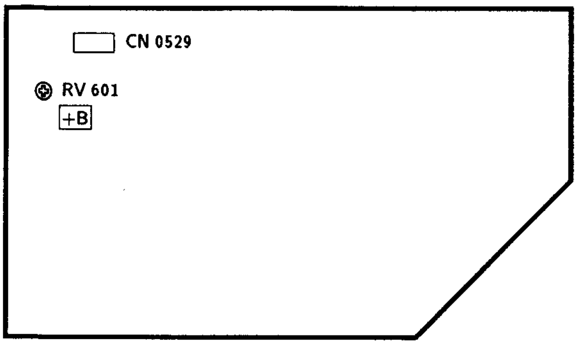
3. Press OK button to write the data.

If menu display may disturb the adjustment press 🔇 to clear, to resume it, press 🔇 again.

4-2. VOLUME ELECTRICAL ADJUSTMENTS

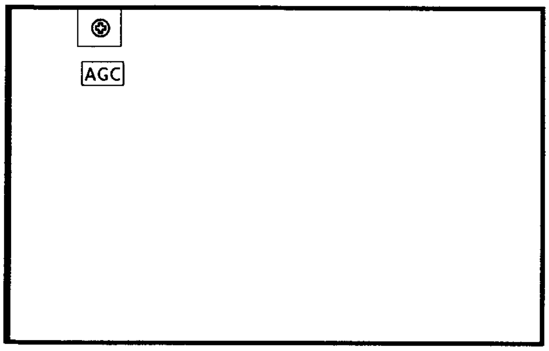
+B (+135 V) ADJUSTMENT (RV 601)

D BOARD



1. Turn on the power of the TV set.
2. Connect a digital multi-meter to ① pin of CN 0529 on D board.
3. Adjust RV 601 on D board to +135 V.

AGC ADJUSTMENT (IF BLOCK)



1. Receive off-air signal.
2. Adjust AGC VR so that there is no snow noise and cross-modulation.
3. Change receiving channel and confirm status.

4-3. TEST MODE 2 :

Is available by pressing Test button two times, OSD “TT”appears. The functions described bellow are available by pressing the two numbers. To release the Test Mode 2, press two times 0, or switch TV in Standby Mode.

00	switch Test Mode 2 off
01	picture maximum
02	picture minimum
03	Volume 35%
04	Volume 50%
05	Volume 65%
06	Volume 80%
07	Aging Condition (Volumin., Picture max., Brightness max., Aging 2 Mode of CXA 1587S, TDA 2595 is locked to CXA 1587S via PIN 34 of μ-Con.)
08	Shipping Condition (Analog Values are RESET due to factory setting, Prog 1 is selected, TT Mode is switched off)
09	dummy
10	Tenth entry is deleted
11	Balance
12	Hue
13-14	dummy
15	Read factory setting from NVM Reads Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Colour values from ROM to the actual used values (Last Power Memory)
16	Save actual used values as RESET values Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM
17	Preset Lavel for AV Sources
18	dummy
19	Stereo Seperation
20	Tenth entry is deleted
21	Sub Contrast
22	Sub Colour
23	Sub Brightness
24-29	dummy

30	Tenth entry is deleted
31	Green Drive
32	Blue Drive
33	Green Cut Off (Auto Cut Off)
34	Blue Cut Off (Auto Cut Off)
35	Red Cut Off (Manual Cut Off) (Auto Cut Off is switched off)
36	Green Cut Off (Manual Cut Off) (Auto Cut Off is switched off)
37	Blue Cut Off (Manual Cut Off) (Auto Cut Off is switched off)
38	Y-Filter adjustment (Trap is switched off and TDA 9145 is switched in forced NTSC Mode)
39	dummy
40	Tenth entry is deleted
41	Default setting of CXA 1587S (Only in Plog 99 available)
42	Default setting of CXA 2018Q (Only in Plog 99 available)
43	Default setting of CXA 1526 (Only in Plog 99 available)
44	(all Port High) Not yet
45	(all Port High) Not yet
46-48	dummy
49	Erease the NVM Testbyte (this byte detects already stored NMV's) After selecting this function, switch TV Off and On → the NVM will be preset by μ-Controller. (Not the channel data)

Note: For No. 35, 36, 37 and 38 special pressing (AKB, forced Color Mode, Trap) is selected. After selecting a new Test Mode Number, the AKB is switched ON, the Trap is switched On and TDA 9145 is switched to Auto Search Mode.

In Test Mode 2 the Menu display is switchable by Speaker-Off button.

4-4. ERROR MESSAGE

Self diagnos system can operates as follows.

- When MP can't get the acknowledge back from the device, LED starts flashing according to the table as attached.

In case of more errors in parallel, the blinking error shows max. Priority according to the error number (e.g. error 2 and error 5 appears together, then LEDs shows error 2) .

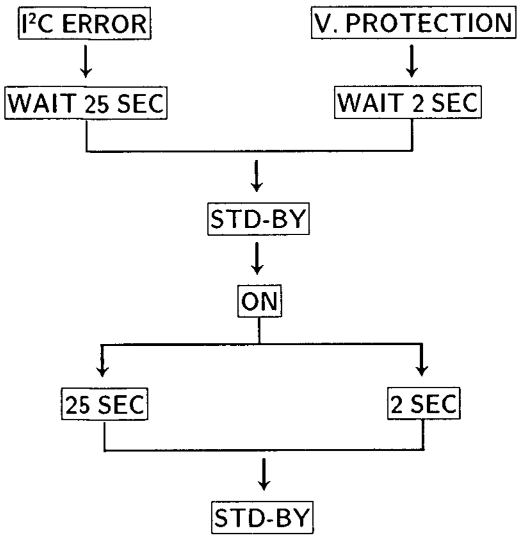


TABLE OF ERRORS

ERROR COUNT	IC TYPE	FUNCTION
1	II C BUS	SDA low
2	X 24 C 16	EEPROM
3	SDA 3202	Tuner Pll
4	TDA 9145	Colour decoder
5	CXA 1587S	RGB/Jungle
6	TDA 6612	Sound processor
7	CXD 2018Q	V deflection
8	CXA 1545	AV switch
11	SDA 5248	Text
13		V protection

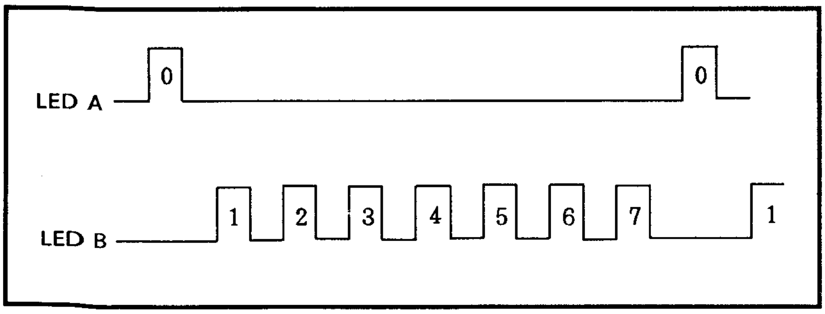
Stand by LED blinking

No IK return

4-5. ERROR II C BUS DIAGNOSIS SYSTEM IN AE-2A CHASSIS AVAILABLE

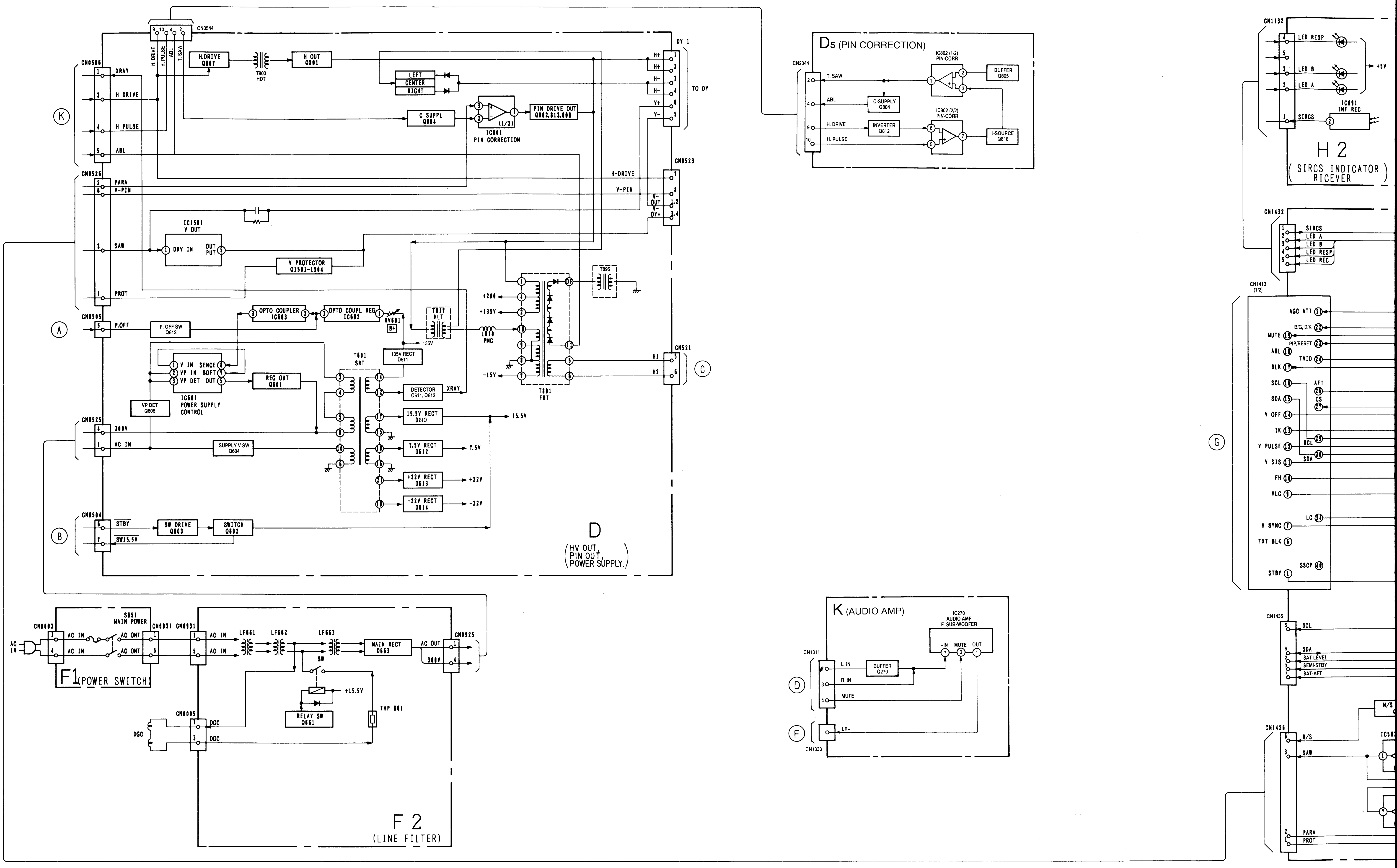
For all ICs in AE-2A chassis which are necessary to get picture and sound there is a built in error I²C Bus diagnosis system.

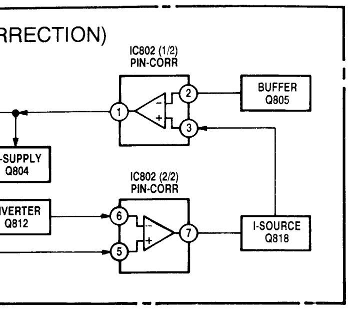
In case of no acknowledge bit, LED A and LED B starts blinking as shown.

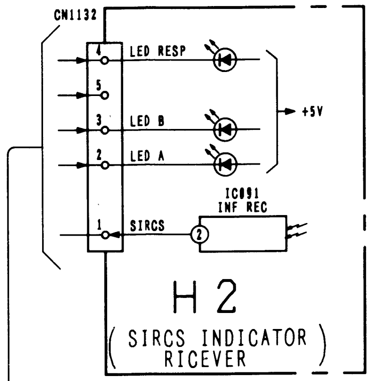


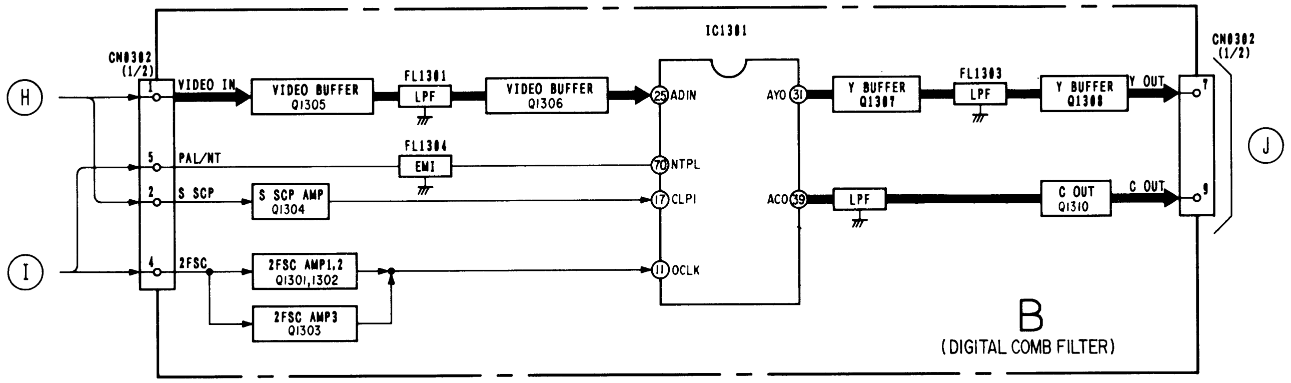
SECTION 5
DIAGRAMS

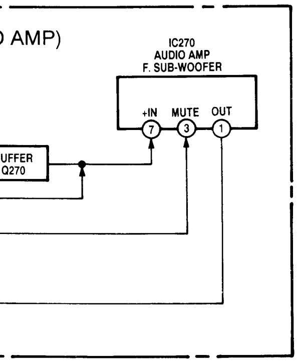
5-1. BLOCK DIAGRAM (1)

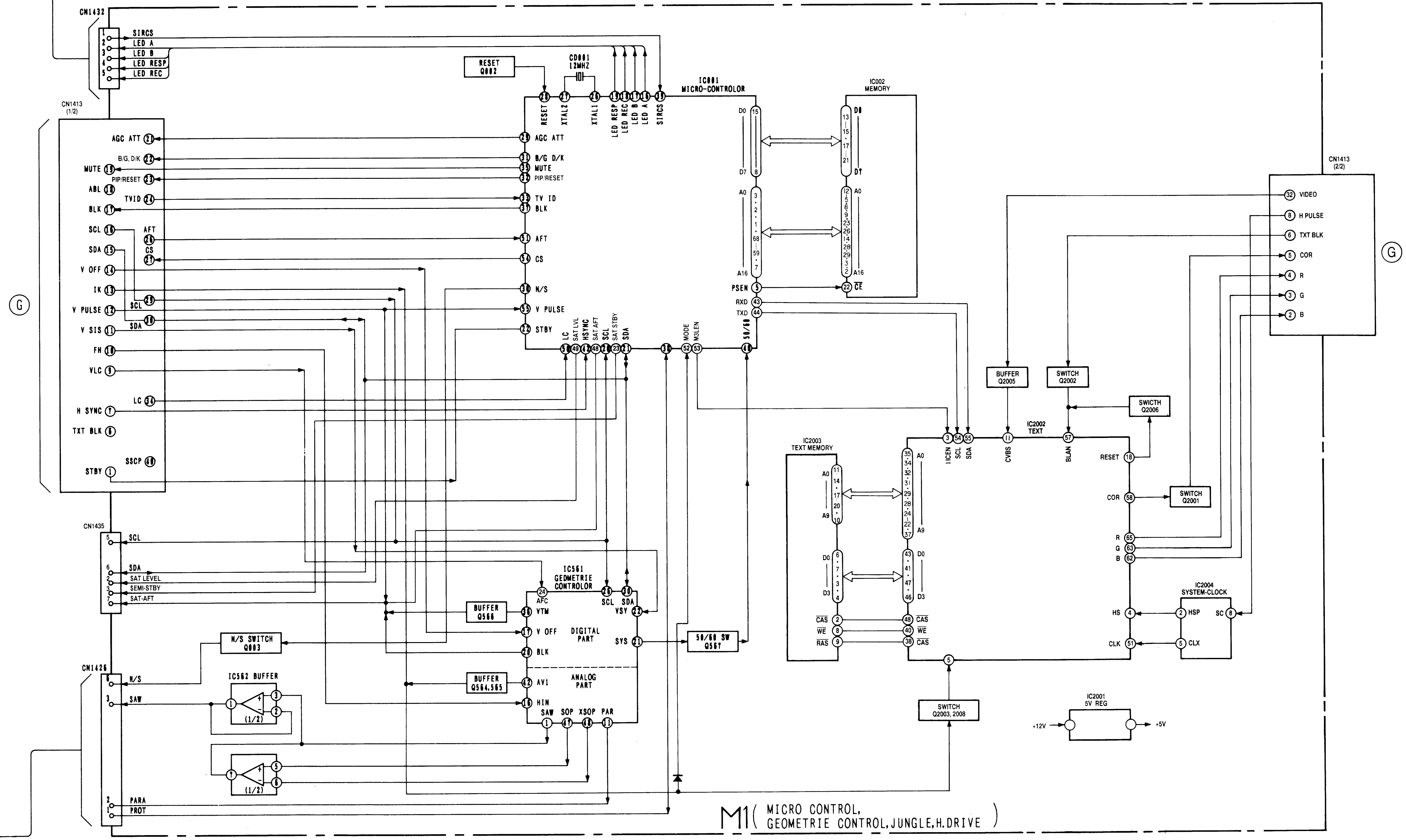

CN0544
9 10 4 2
H. DRIVE
H. PULSE
ABL
T. SAW
CN0506
XRAY
H DRIVE
H PULSE
ABL
K
H.DRIVE Q807
T803 HDT
H OUT Q801
LEFT
CENTER
RIGHT
C SUPPL Q804
IC801 PIN CORRECTION
(1/2)
PIN DRIVE OUT Q802,813,806
DY 1
H+
H+
H-
H-
V+
V-
TO DY
CN0523
H-DRIVE
V-PIN
V-OUT
V-DY+
CN0526
PARA
V-PIN
SAW
PROT
IC1501 V OUT
DRV IN
OUT PUT
V PROTECTOR Q1501-1504
CN0505
A
P.OFF
P. OFF SW Q613
OPTO COUPLER IC603
OPTO COUPL REG IC602
RV601
B+
135V
135V RECT D611
T817 HLT
L810 PMC
T895
+200
+135V
-15V
T801 FBT
CN521
H1
H2
C
V IN SENCE
VP IN SOFT
VP DET OUT
REG OUT Q601
IC601 POWER SUPPLY CONTROL
VP DET Q606
T601 SRT
DETECTOR Q611, Q612
XRAY
15.5V RECT D610
15.5V
7.5V RECT D612
7.5V
+22V RECT D613
+22V
-22V RECT D614
-22V
CN0525
300V
AC IN
SUPPLY V SW Q604
CN0504
B
STBY
SW15.5V
SW DRIVE Q603
SWITCH Q602
D
(HV OUT, PIN OUT, POWER SUPPLY.)
CN0003
S651 MAIN POWER
AC IN
AC IN
AC ONT
AC ONT
CN0831
F1(POWER SWITCH)
CN0931
AC IN
AC IN
LF661
LF662
LF663
MAIN RECT D663
AC OUT
300V
CN0925
SW
+15.5V
RELAY SW Q661
THP 661
CN0005
DGC
DGC
DGC
F 2
(LINE FILTER)
D5 (PIN CORRECTION)
CN2044
T. SAW
ABL
H. DRIVE
H. PULSE
C-SUPPLY Q804
INVERTER Q812
IC802 (1/2) PIN-CORR
IC802 (2/2) PIN-CORR
BUFFER Q805
I-SOURCE Q818
K (AUDIO AMP)
CN1311
L IN
R IN
MUTE
BUFFER Q270
IC270 AUDIO AMP F. SUB-WOOFER
+IN MUTE OUT
D
F
LR+
CN1333
CN1132
LED RESP
LED B
LED A
SIRCS
+5V
IC091 INF REC
H 2
(SIRCS INDICATOR RICEVER)
CN1432
SIRCS
LED A
LED B
LED RESP
LED REC
CN1413 (1/2)
G
AGC ATT
B/G, D/K
MUTE
PIP/RESET
ABL
TVID
BLK
SCL
AFT
SDA
CS
V OFF
IK
SCL
V PULSE
SDA
V SIS
FH
VLC
LC
H SYNC
TXT BLK
SSCP
STBY
CN1435
SCL
SDA
SAT LEVEL
SEMI-STBY
SAT-AFT
N/S
CN1426
N/S
SAW
PARA
PROT

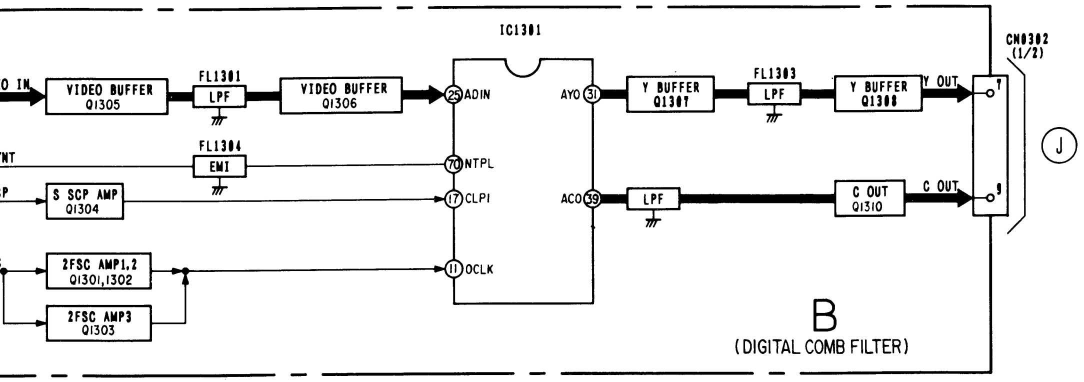

RRECTION)
IC802 (1/2) PIN-CORR
BUFFER Q805
-SUPPLY Q804
IC802 (2/2) PIN-CORR
VERTER Q812
I-SOURCE Q818


CN1132
LED RESP
LED B
LED A
+5V
IC091 INF REC
SIRCS
H 2
(SIRCS INDICATOR RICEVER)

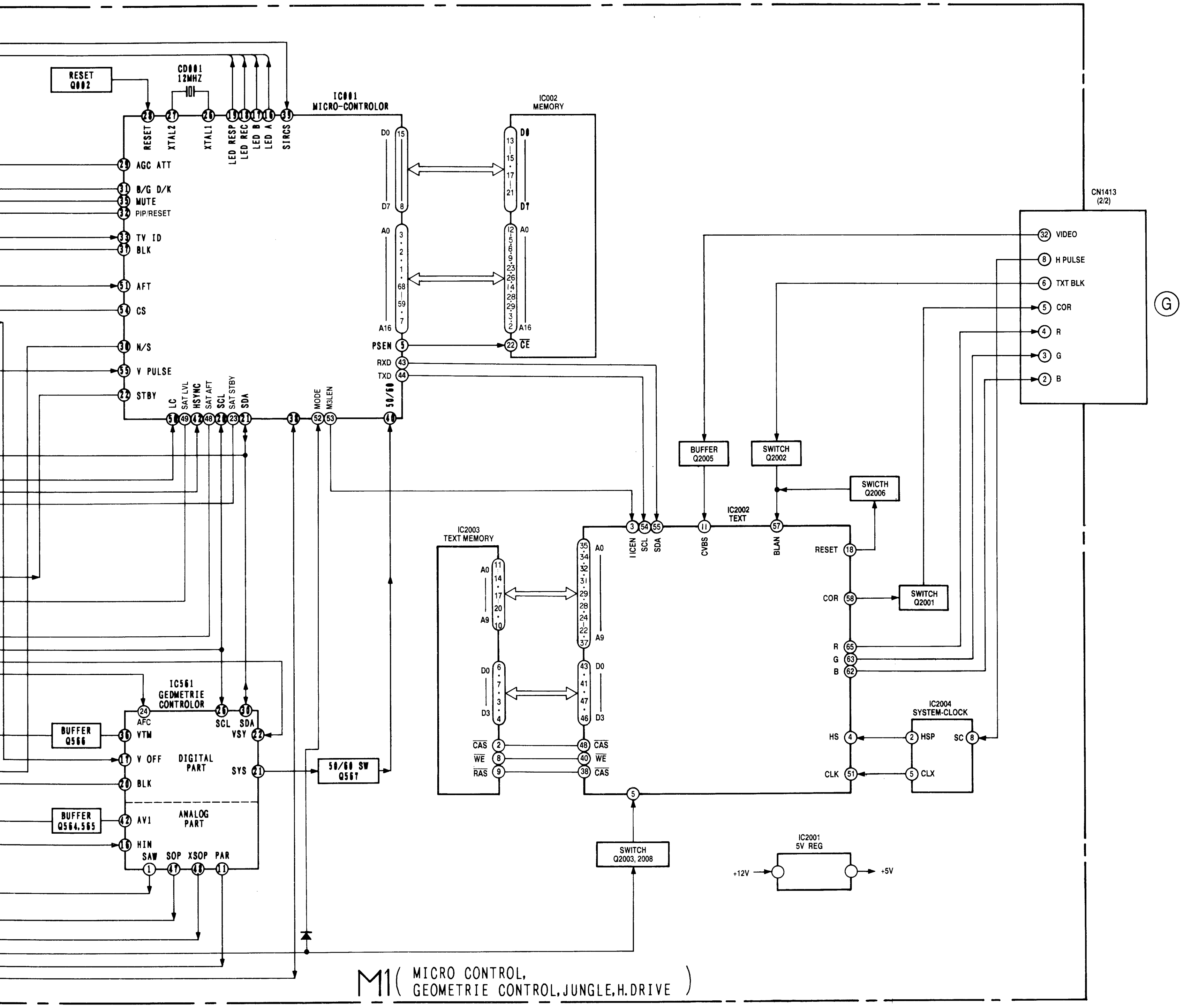

H
I
CN0302 (1/2)
VIDEO IN
PAL/NT
S SCP
2FSC
VIDEO BUFFER Q1305
FL1301 LPF
VIDEO BUFFER Q1306
FL1304 EMI
S SCP AMP Q1304
2FSC AMP1,2 Q1301,1302
2FSC AMP3 Q1303
IC1301
ADIN
NTPL
CLPI
OCLK
AYO
ACO
Y BUFFER Q1307
FL1303 LPF
Y BUFFER Q1308
Y OUT
LPF
C OUT Q1310
C OUT
CN0302 (1/2)
J
B
(DIGITAL COMB FILTER)


D AMP)
IC270 AUDIO AMP F. SUB-WOOFER
+IN MUTE OUT
UFFER Q270


CN1432
SIRCS
LED A
LED B
LED RESP
LED REC
CN1413 (1/2)
G
AGC ATT
B/G, D/K
MUTE
PIP/RESET
ABL
TVID
BLK
SCL
AFT
SDA
CS
V OFF
IK
V PULSE
V SIS
FH
VLC
LC
H SYNC
TXT BLK
SSCP
STBY
RESET Q002
CD001 12MHZ
IC001 MICRO-CONTROLOR
RESET XTAL2 XTAL1 LED RESP LED REC LED B LED A SIRCS
AGC ATT
B/G D/K
MUTE
PIP/RESET
TV ID
BLK
AFT
CS
N/S
V PULSE
STBY
LC SAT LVL HSYNC SAT AFT SCL SAT STBY SDA
MODE M3LEN 50/60
D0 D7 A0 A16 PSEN RXD TXD
IC002 MEMORY
D0 D7 A0 A16 CE
CN1413 (2/2)
VIDEO
H PULSE
TXT BLK
COR
R
G
B
BUFFER Q2005
SWITCH Q2002
SWICTH Q2006
IC2002 TEXT
ICEN SCL SDA CVBS BLAN
RESET
COR
SWITCH Q2001
R G B
HS
CLK
IC2004 SYSTEM-CLOCK
HSP SC CLX
IC2003 TEXT MEMORY
A0 A9 D0 D3 CAS WE RAS
SWITCH Q2003, 2008
IC2001 5V REG
+12V +5V
CN1435
SCL
SDA
SAT LEVEL
SEMI-STBY
SAT-AFT
IC561 GEOMETRIE CONTROLOR
AFC VTM V OFF BLK
SCL SDA VSY SYS
DIGITAL PART
ANALOG PART
AVI HIN
SAW SOP XSOP PAR
BUFFER Q566
N/S SWITCH Q003
BUFFER Q564,565
50/60 SW Q567
IC562 BUFFER
(1/2)
CN1426
N/S
SAW
PARA
PROT
M1 (MICRO CONTROL, GEOMETRIE CONTROL, JUNGLE, H.DRIVE)


O IN
VIDEO BUFFER Q1305
FL1301 LPF
VIDEO BUFFER Q1306
IC1301
ADIN
NTPL
CLPI
OCLK
AYO
ACO
Y BUFFER Q1307
FL1303 LPF
Y BUFFER Q1308
Y OUT
LPF
C OUT Q1310
C OUT
CN0302 (1/2)
J
NT
FL1304 EMI
P
S SCP AMP Q1304
2FSC AMP1,2 Q1301,1302
2FSC AMP3 Q1303

B
(DIGITAL COMB FILTER)

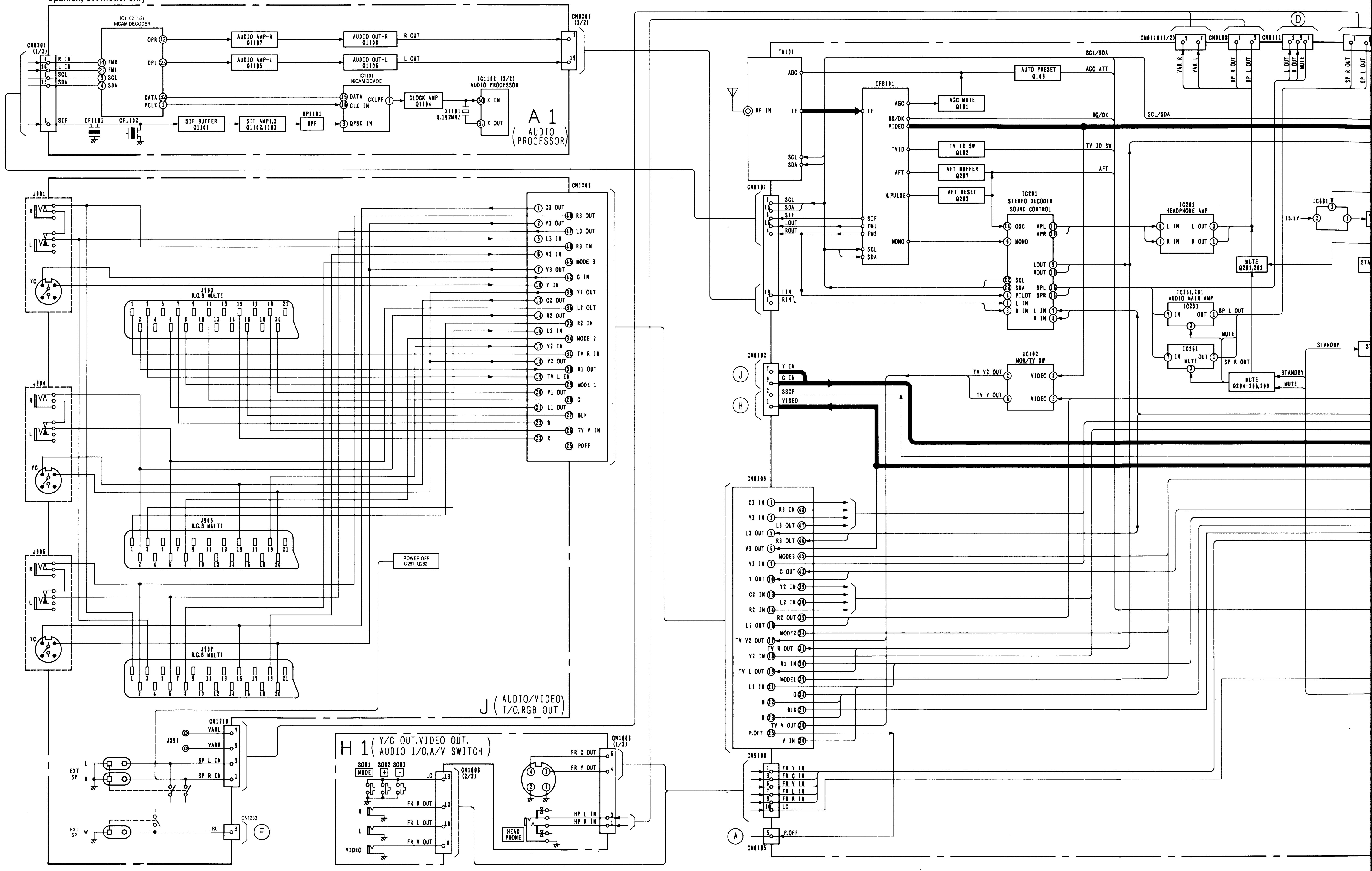

RESET Q002
CD001 12MHZ
IC001 MICRO-CONTROLOR
RESET
XTAL2
XTAL1
LED RESP
LED REG
LED B
LED A
SIRCS
AGC ATT
B/G D/K
MUTE
PIP/RESET
TV ID
BLK
AFT
CS
N/S
V PULSE
STBY
LC
SAT LVL
HSYNC
SAT AFT
SCL
SAT STBY
SDA
MODE
MGLEN
50/60
D0
D7
A0
A16
PSEN
RXD
TXD
IC002 MEMORY
D0
D7
A0
A16
CE
CN1413 (2/2)
VIDEO
H PULSE
TXT BLK
COR
R
G
B
G
BUFFER Q2005
SWITCH Q2002
SWITCH Q2006
IC2002 TEXT
ICEN
SCL
SDA
CVBS
BLAN
RESET
COR
SWITCH Q2001
R
G
B
HS
CLK
IC2004 SYSTEM-CLOCK
HSP
SC
CLX
IC2003 TEXT MEMORY
A0
A9
D0
D3
CAS
WE
RAS
A0
A9
D0
D3
CAS
WE
CAS
SWITCH Q2003, 2008
IC2001 5V REG
+12V
+5V
IC561 GEOMETRIE CONTROLOR
AFC
SCL
SDA
VTM
VSY
V OFF
DIGITAL PART
BLK
SYS
AV1
ANALOG PART
HIN
SAW
SOP
XSOP
PAR
BUFFER Q566
BUFFER Q564,565
50/60 SW Q567

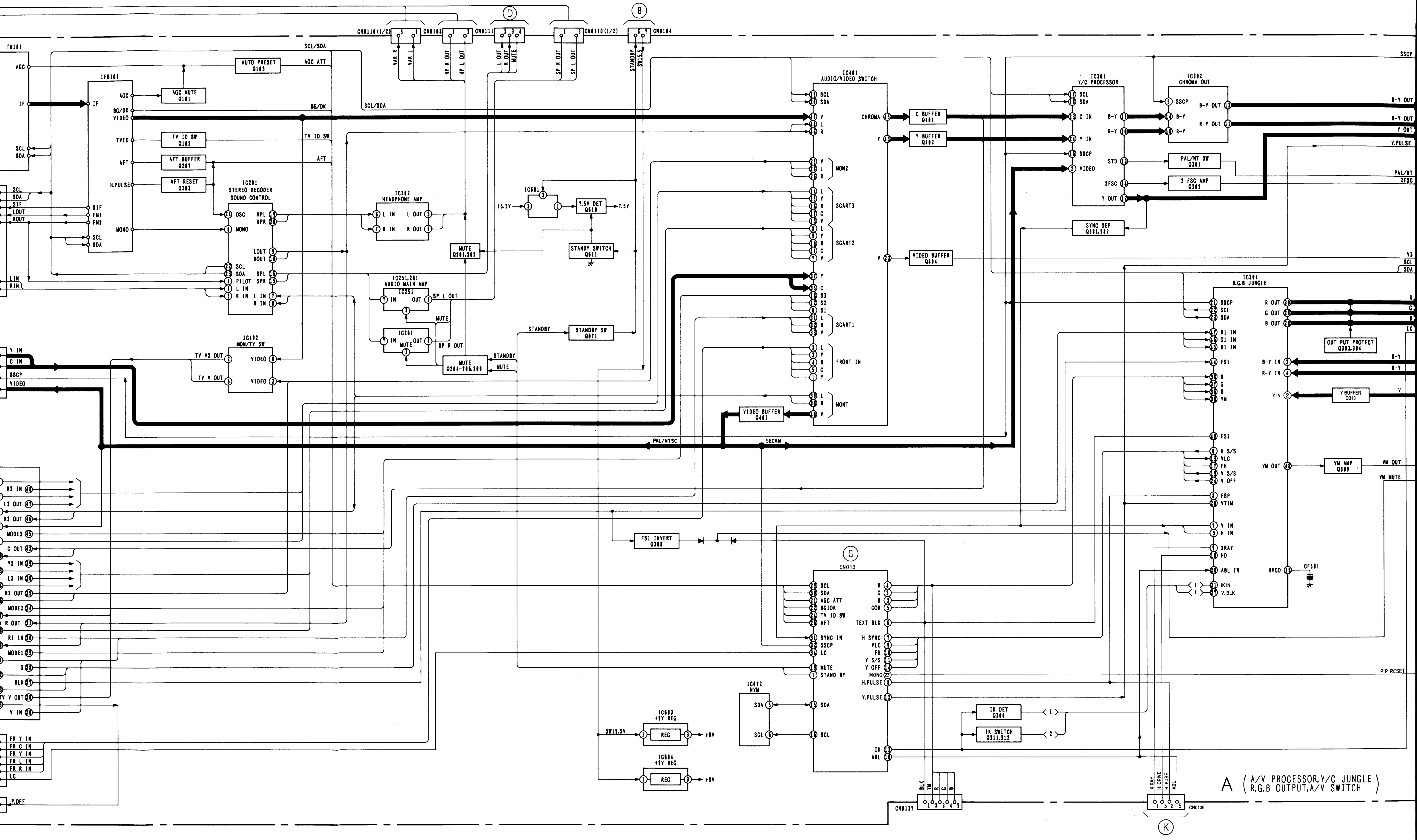
M1 (MICRO CONTROL, GEOMETRIE CONTROL, JUNGLE, H.DRIVE)

-37-

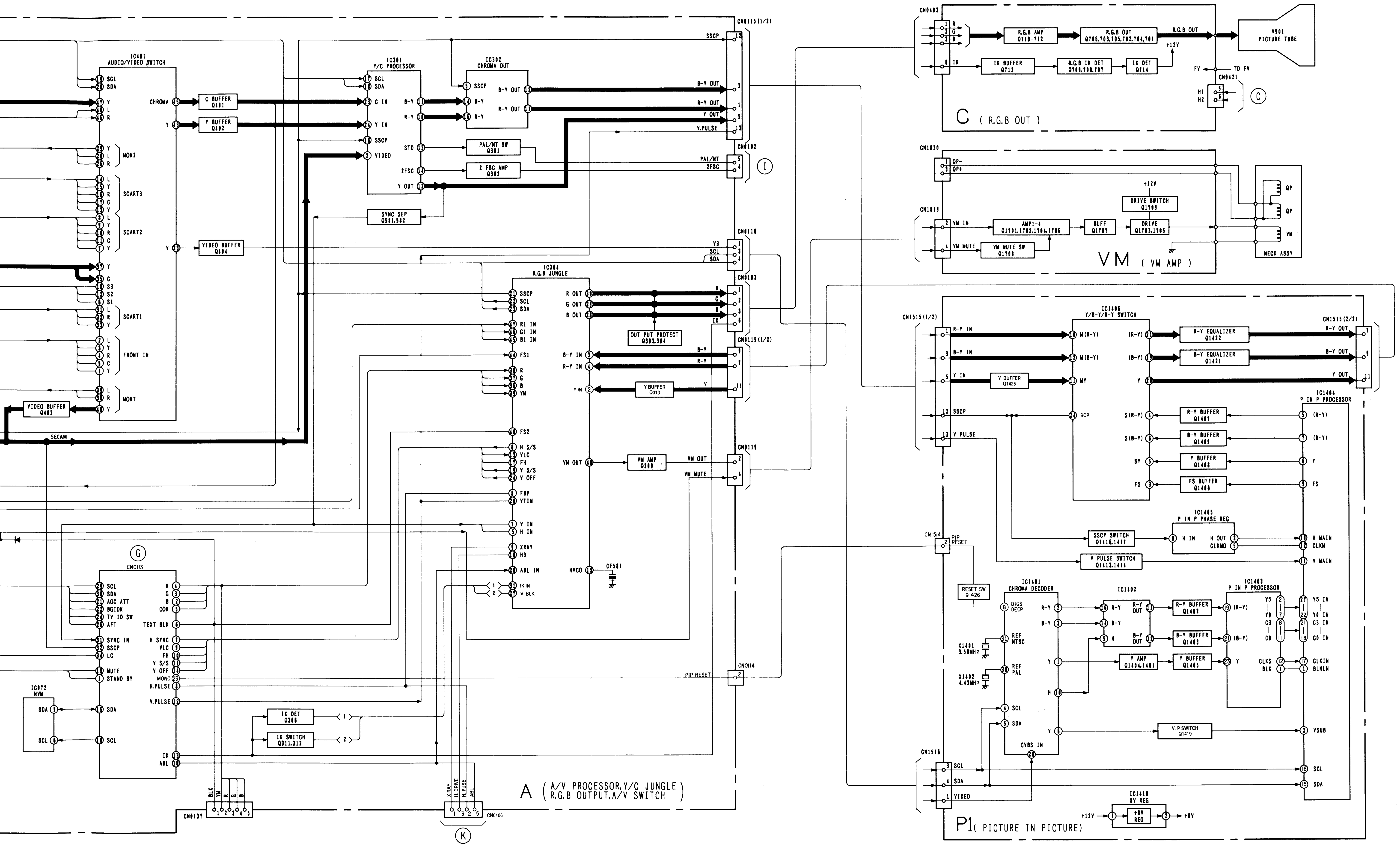
BLOCK DIAGRAM (2)

Spanish, UK model only

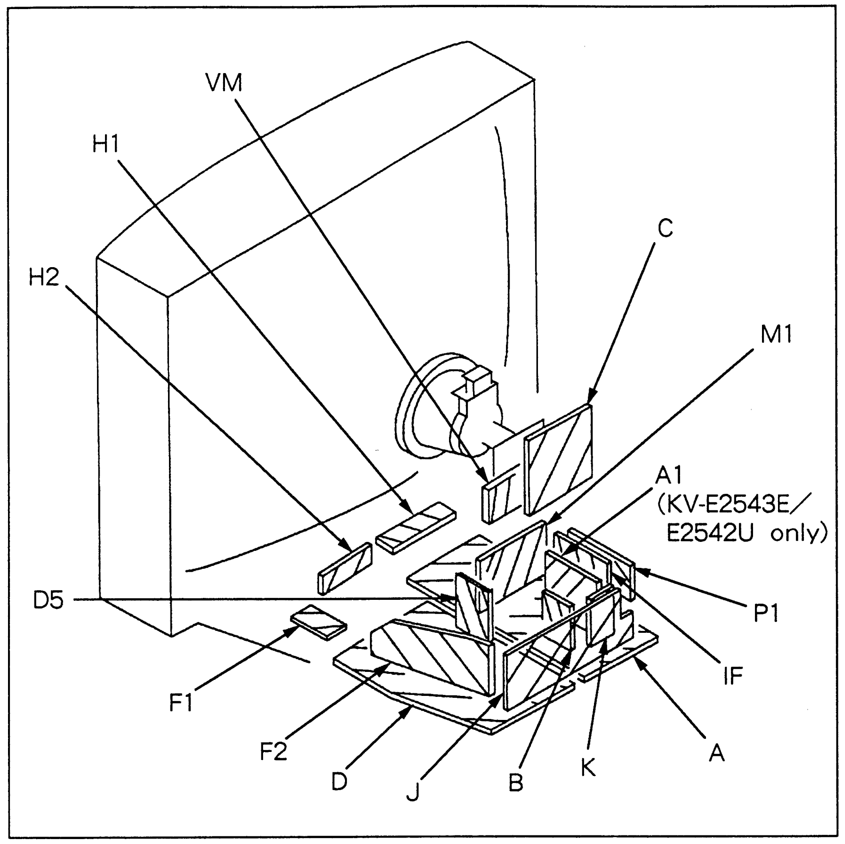

IC1102 (1/2) NICAM DECODER
AUDIO AMP-R Q1107
AUDIO AMP-L Q1105
AUDIO OUT-R Q1108
AUDIO OUT-L Q1106
R OUT
L OUT
IC1101 NICAM DEMOE
CLOCK AMP Q1104
IC1102 (2/2) AUDIO PROCESSOR
X1101 8.192MHZ
SIF BUFFER Q1101
SIF AMP1,2 Q1102,1103
BPF
CF1101
CF1102
CN0201 (1/2)
CN0201 (2/2)
A 1 (AUDIO PROCESSOR)
J901
J904
J906
YC
J903 R.G.B MULTI
J905 R.G.B MULTI
J907 R.G.B MULTI
CN1209
POWER OFF Q281, Q282
J (AUDIO/VIDEO I/O,RGB OUT)
CN1210
J291
VARL
VARR
SP L IN
SP R IN
EXT SP
CN1233
RL+
F
H 1 (Y/C OUT,VIDEO OUT, AUDIO I/O,A/V SWITCH)
S081 MODE
S082 +
S083 −
CN1008 (1/2)
CN1008 (2/2)
FR C OUT
FR Y OUT
FR R OUT
FR L OUT
FR V OUT
HP L IN
HP R IN
HEAD PHONE
VIDEO
TU101
RF IN
AGC
IF
IFB101
BG/DK
TVID
AFT
H.PULSE
MONO
AUTO PRESET Q103
AGC ATT
AGC MUTE Q101
TV ID SW Q102
AFT BUFFER Q207
AFT RESET Q203
SCL/SDA
TV ID SW
IC201 STEREO DECODER SOUND CONTROL
IC202 HEADPHONE AMP
MUTE Q201,202
IC251,261 AUDIO MAIN AMP
IC251
IC261
SP L OUT
SP R OUT
MUTE Q204-206,209
STANDBY
IC601
15.5V
IC402 MON/TV SW
TV V2 OUT
TV V OUT
CN0101
CN0102
CN0109
CN5108
CN0105
CN0110 (1/2)
CN0108
CN0111
D
J
H
A
P.OFF
VAR R
VAR L
HP R OUT
HP L OUT
L OUT
R OUT
MUTE
SP R OUT
SP L OUT
Y IN
C IN
SSCP
FR Y IN
FR C IN
FR V IN
FR L IN
FR R IN
LC


TU101
AGC
IF
SCL
SDA
IF8101
AGC
BG/DK
VIDEO
TVID
AFT
H.PULSE
SIF
FM1
FM2
MONO
AUTO PRESET Q103
AGC ATT
AGC MUTE Q101
SCL/SDA
BG/DK
TV ID SW Q102
AFT BUFFER Q207
AFT RESET Q203
IC201 STEREO DECODER SOUND CONTROL
OSC
MONO
HPL
HPR
LOUT
ROUT
SCL
SDA
PILOT
L IN
R IN
SPL
SPR
IC202 HEADPHONE AMP
L IN
R IN
L OUT
R OUT
MUTE Q201,202
IC251,261 AUDIO MAIN AMP
IC251
IC261
SP L OUT
SP R OUT
MUTE
MUTE Q204-206,209
STANDBY
IC402 MON/TV SW
TV V2 OUT
TV V OUT
VIDEO
CN0110(1/2)
CN0108
CN0111
CN0110(1/2)
CN0104
D
B
VAR R
VAR L
HP R OUT
HP L OUT
L OUT
R OUT
MUTE
SP R OUT
SP L OUT
STANDBY
SW15.5
IC601
15.5V
7.5V DET Q610
7.5V
STANDY SWITCH Q611
STANDBY SW Q071
IC401 AUDIO/VIDEO SWITCH
SCL
SDA
Y
L
R
MON2
SCART3
SCART2
C
S3
S2
S1
SCART1
FRONT IN
MONT
CHROMA
C BUFFER Q401
Y BUFFER Q402
VIDEO BUFFER Q404
VIDEO BUFFER Q403
PAL/NTSC
SECAM
IC301 Y/C PROCESSOR
C IN
Y IN
SSCP
VIDEO
B-Y
R-Y
STD
2FSC
Y OUT
IC302 CHROMA OUT
B-Y OUT
R-Y OUT
PAL/NT SW Q301
2 FSC AMP Q302
SYNC SEP Q501,502
SSCP
B-Y OUT
R-Y OUT
Y OUT
V.PULSE
PAL/NT
2FSC
V3
SCL
SDA
IC304 R.G.B JUNGLE
R OUT
G OUT
B OUT
R1 IN
G1 IN
B1 IN
FS1
B-Y IN
R-Y IN
Y IN
YM
FS2
H S/S
VLC
FH
V S/S
V OFF
FBP
VTIM
V IN
H IN
XRAY
HD
ABL IN
IKIN
V.BLK
HVCO
CF501
VM OUT
OUT PUT PROTECT Q303,304
Y BUFFER Q313
VM AMP Q309
VM MUTE
R
G
B
IK
B-Y
R-Y
Y
FS1 INVERT Q308
G
CN0113
SCL
SDA
AGC ATT
BGIDK
TV ID SW
AFT
SYNC IN
SSCP
LC
MUTE
STAND BY
SDA
SCL
TEXT BLK
COR
H SYNC
VLC
FH
V S/S
V OFF
MONO
H.PULSE
V.PULSE
IK
ABL
IC072 NVM
IC603 +9V REG
IC604 +9V REG
REG
SW15.5V
+9V
IK DET Q306
IK SWITCH Q311,312
PIP RESET
CN0137
BLK
YM
R
G
B
CN0106
X RAY
H DRIVE
H PUSE
ABL
K
SCL
SDA
SIF
LOUT
ROUT
LIN
RIN
Y IN
C IN
SSCP
VIDEO
R3 IN
L3 OUT
R3 OUT
MODE3
C OUT
Y2 IN
L2 IN
R2 OUT
MODE2
R OUT
R1 IN
MODE1
G
BLK
TV V OUT
V IN
FR Y IN
FR C IN
FR V IN
FR L IN
FR R IN
LC
P.OFF

A (A/V PROCESSOR,Y/C JUNGLE R.G.B OUTPUT,A/V SWITCH)


IC401
AUDIO/VIDEO SWITCH
C BUFFER
Q401
Y BUFFER
Q402
VIDEO BUFFER
Q404
VIDEO BUFFER
Q403
MON2
SCART3
SCART2
SCART1
FRONT IN
MONT
SECAM
IC301
Y/C PROCESSOR
IC302
CHROMA OUT
PAL/NT SW
Q301
2 FSC AMP
Q302
SYNC SEP
Q501,502
IC304
R.G.B JUNGLE
OUT PUT PROTECT
Q303,304
Y BUFFER
Q313
VM AMP
Q309
CF501
CN0115(1/2)
CN0102
CN0116
CN0103
CN0119
CN0114
PIP RESET
CN0113
IC872
NVM
IK DET
Q306
IK SWITCH
Q311,312
CN0137
CN0106
A (A/V PROCESSOR,Y/C JUNGLE R.G.B OUTPUT,A/V SWITCH)
G
I
K
CN0403
R.G.B AMP
Q710-712
R.G.B OUT
Q706,703,705,702,704,701
R.G.B OUT
V901
PICTURE TUBE
IK BUFFER
Q713
R.G.B IK DET
Q709,708,707
IK DET
Q714
+12V
TO FV
CN0421
C (R.G.B OUT)
CN1030
CN1019
AMP1-4
Q1701,1702,1704,1706
BUFF
Q1707
DRIVE SWITCH
Q1709
DRIVE
Q1703,1705
VM MUTE SW
Q1708
NECK ASSY
VM (VM AMP)
CN1515(1/2)
CN1515(2/2)
IC1406
Y/B-Y/R-Y SWITCH
R-Y EQUALIZER
Q1422
B-Y EQUALIZER
Q1421
Y BUFFER
Q1425
IC1404
P IN P PROCESSOR
R-Y BUFFER
Q1407
B-Y BUFFER
Q1409
Y BUFFER
Q1408
FS BUFFER
Q1406
IC1405
P IN P PHASE REG
SSCP SWITCH
Q1416,1417
V PULSE SWITCH
Q1413,1414
CN1514
RESET SW
Q1426
IC1401
CHROMA DECODER
IC1402
IC1403
P IN P PROCESSOR
R-Y BUFFER
Q1402
B-Y BUFFER
Q1403
Y AMP
Q1404,1401
Y BUFFER
Q1405
V.P SWITCH
Q1419
X1401
3.58MHz
X1402
4.43MHz
CN1516
IC1410
8V REG
P1 (PICTURE IN PICTURE)

5-2. CIRCUIT BOARDS LOCATION


VM
H1
C
H2
M1
A1
(KV-E2543E/
E2542U only)
D5
P1
IF
F1
F2
D
J
B
K
A

Reference information

RESISTOR	RN	: METAL FILM
	RC	: SOLID
	FPRD	: NONFLAMMABLE CARBON
	FUSE	: NONFLAMMABLE FUSIBLE
	RS	: NONFLAMMABLE METAL OXIDE
	RB	: NONFLAMMABLE CEMENT
	RW	: NONFLAMMABLE WIREWOUND
	※	: ADJUSTMENT RESISTOR
COIL	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et par une marque ⚠ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

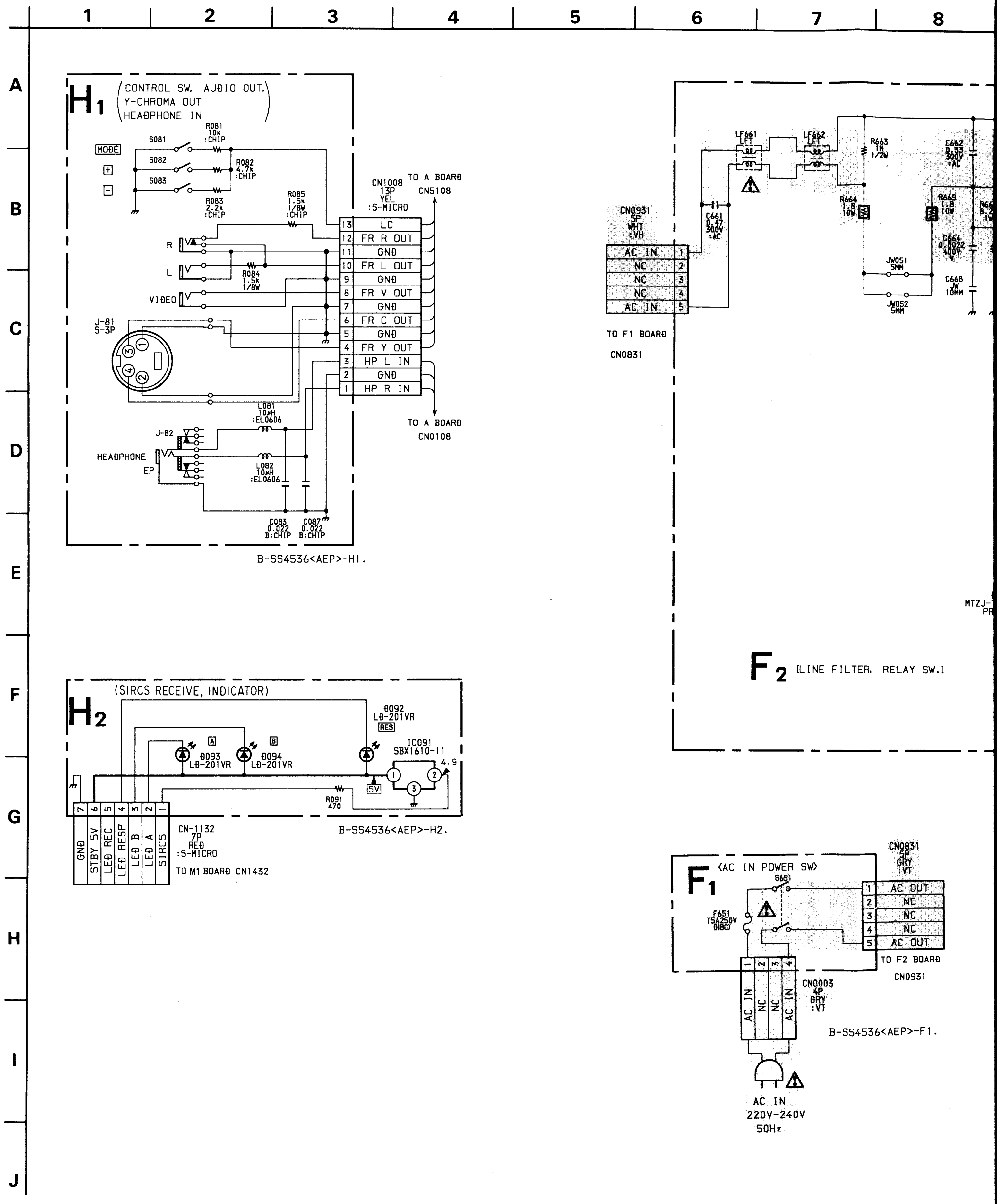
5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note :

- All capacitors are in µF unless otherwise noted.
  pF : µµF 50WV or less are not indicated except for electrolytic.
- Indication of resistance, which dose not have one for rating electrical power, is as follows.

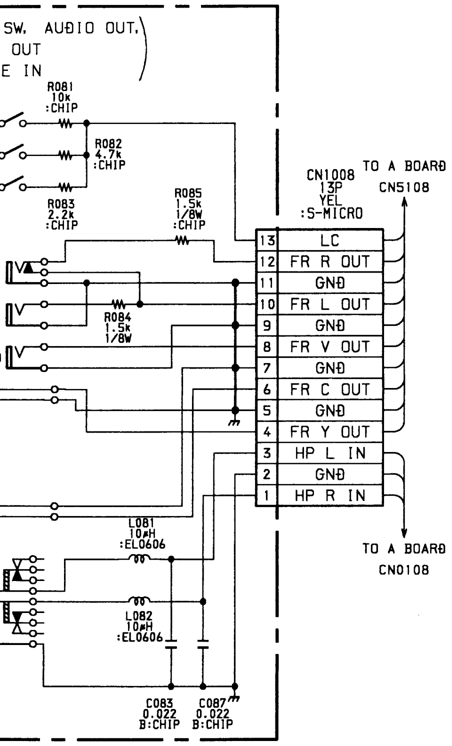
Pitch : 5mm Rating electrical power : ¼W

- Chip resistor is in 1/10W.
- All resistors are in ohms.
  kΩ = 1000Ω, MΩ = 1000KΩ
- ▭ : nonflammable resistor.
- ▭ : fusible resistor.
- △ : internal component.
- ☐ : panel designation or adjustment for repair.
- All variable and adjustable resistors have charactristic curve B, unless otherwise noted.
- All voltages are in V.
- Readings are taken with a 10MΩ digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- ━ : B + bus.
- ╍ : B − bus.
- ▨ : signal path.(RF)
- ⏚ : earth - ground
- ⏚ : earth - chassis

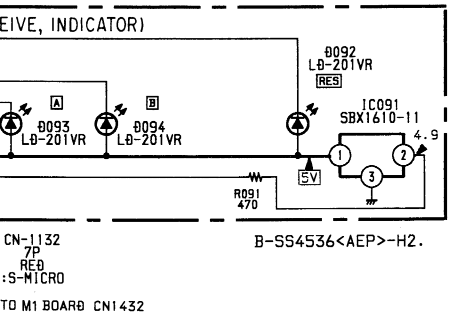

1
2
3
4
5
6
7
8
A
B
C
D
E
F
G
H
I
J
H1
CONTROL SW. AUDIO OUT.
Y-CHROMA OUT
HEADPHONE IN
MODE
+
−
S081
S082
S083
R081 10k :CHIP
R082 4.7k :CHIP
R083 2.2k :CHIP
R085 1.5k 1/8W :CHIP
R084 1.5k 1/8W
R
L
VIDEO
J-81 S-3P
CN1008 13P YEL :S-MICRO
TO A BOARD CN5108
13 LC
12 FR R OUT
11 GND
10 FR L OUT
9 GND
8 FR V OUT
7 GND
6 FR C OUT
5 GND
4 FR Y OUT
3 HP L IN
2 GND
1 HP R IN
TO A BOARD CN0108
J-82
HEADPHONE
EP
L081 10µH :EL0606
L082 10µH :EL0606
C083 0.022 B:CHIP
C087 0.022 B:CHIP
B-SS4536<AEP>-H1.
H2
(SIRCS RECEIVE, INDICATOR)
D092 LD-201VR
RES
A
B
D093 LD-201VR
D094 LD-201VR
IC091 SBX1610-11
4.9
5V
R091 470
7 GND
6 STBY 5V
5 LED REC
4 LED RESP
3 LED B
2 LED A
1 SIRCS
CN-1132 7P RED :S-MICRO
TO M1 BOARD CN1432
B-SS4536<AEP>-H2.
CN0931 5P WHT :VH
AC IN 1
NC 2
NC 3
NC 4
AC IN 5
TO F1 BOARD CN0831
C661 0.47 300V :AC
LF661 LFT
LF662 LFT
R663 1M 1/2W
C662 0.33 300V :AC
R664 1.8 10W
R669 1.8 10W
C664 0.0022 400V
JW051 5MM
JW052 5MM
C668 JW 10MM
MTZJ-
F2 [LINE FILTER, RELAY SW.]
F1 <AC IN POWER SW>
S651
F651 T5A250V (HBC)
CN0831 5P GRY :VT
1 AC OUT
2 NC
3 NC
4 NC
5 AC OUT
TO F2 BOARD CN0931
1 AC IN
2 NC
3 NC
4 AC IN
CN0003 4P GRY :VT
B-SS4536<AEP>-F1.
AC IN
220V-240V
50Hz

H1 [CONTROL SW, AUDIO OUT
Y - CHROMA OUT, HEADPHONE] **H2** [SIRC
INDI

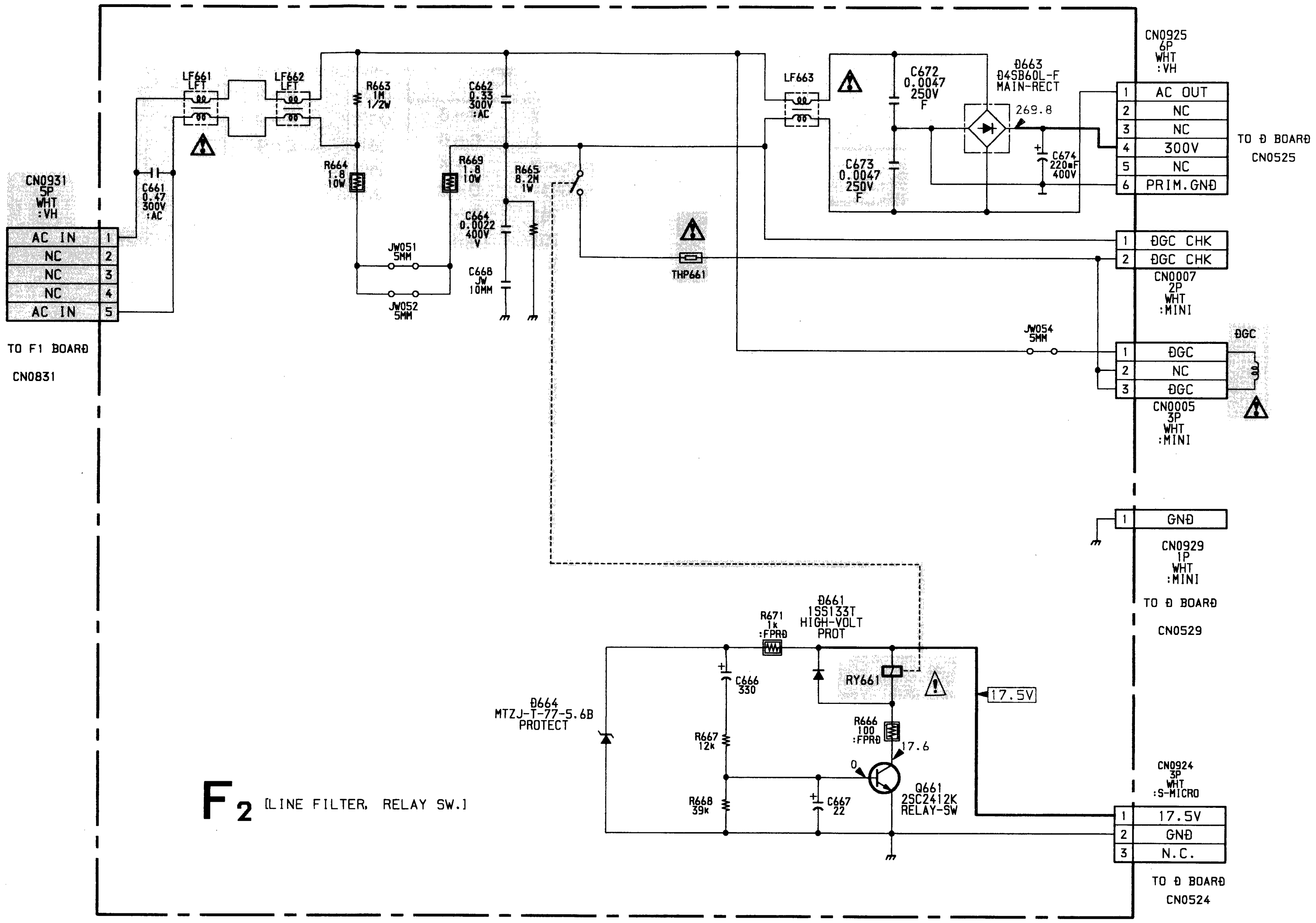
2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13


SW, AUDIO OUT,
OUT
E IN
R081 10k :CHIP
R082 4.7k :CHIP
R083 2.2k :CHIP
R085 1.5k 1/8W :CHIP
R084 1.5k 1/8W
CN1008 13P YEL :S-MICRO
TO A BOARD CN5108
13 LC
12 FR R OUT
11 GND
10 FR L OUT
9 GND
8 FR V OUT
7 GND
6 FR C OUT
5 GND
4 FR Y OUT
3 HP L IN
2 GND
1 HP R IN
TO A BOARD CN0108
L081 10μH :EL0606
L082 10μH :EL0606
C083 0.022 B:CHIP
C087 0.022 B:CHIP

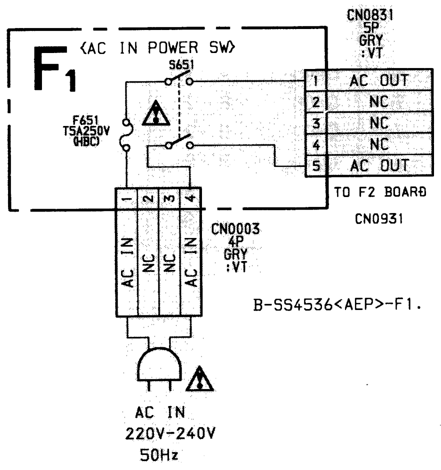
B-SS4536<AEP>-H1.


EIVE, INDICATOR)
D092 LD-201VR
RES
D093 LD-201VR
D094 LD-201VR
IC091 SBX1610-11
4.9
5V
R091 470
CN-1132 7P RED :S-MICRO
TO M1 BOARD CN1432

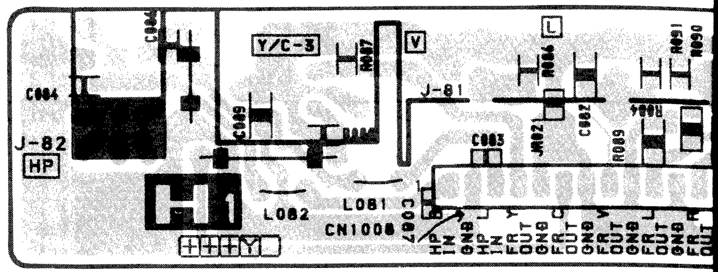
B-SS4536<AEP>-H2.


F2 [LINE FILTER, RELAY SW.]
CN0931 5P WHT :VH
1 AC IN
2 NC
3 NC
4 NC
5 AC IN
TO F1 BOARD CN0831
LF661 LFT
LF662 LFT
C661 0.47 300V :AC
R663 1M 1/2W
R664 1.8 10W
C662 0.33 300V :AC
R669 1.8 10W
R665 8.2M 1W
C664 0.0022 400V
C668 JW 10MM
JW051 5MM
JW052 5MM
LF663
C672 0.0047 250V F
C673 0.0047 250V F
D663 D4SB60L-F MAIN-RECT
269.8
C674 220μF 400V
THP661
CN0925 6P WHT :VH
1 AC OUT
2 NC
3 NC
4 300V
5 NC
6 PRIM.GND
TO D BOARD CN0525
1 DGC CHK
2 DGC CHK
CN0007 2P WHT :MINI
JW054 5MM
1 DGC
2 NC
3 DGC
CN0005 3P WHT :MINI
DGC
1 GND
CN0929 1P WHT :MINI
TO D BOARD CN0529
R671 1k :FPRD
D661 1SS133T HIGH-VOLT PROT
C666 330
RY661
17.5V
D664 MTZJ-T-77-5.6B PROTECT
R667 12k
R666 100 :FPRD
17.6
0
R668 39k
C667 22
Q661 2SC2412K RELAY-SW
CN0924 3P WHT :S-MICRO
1 17.5V
2 GND
3 N.C.
TO D BOARD CN0524

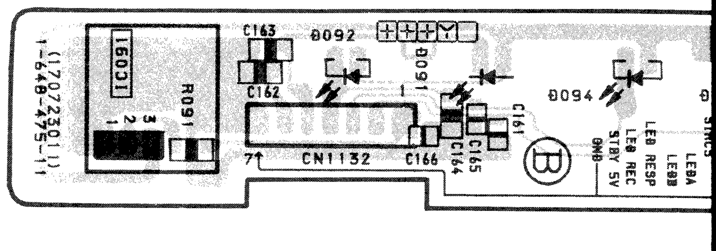
B-SS4536<AEP>-F2.


F1 (AC IN POWER SW)
S651
F651 T5A250V (HBC)
CN0831 5P GRY :VT
1 AC OUT
2 NC
3 NC
4 NC
5 AC OUT
TO F2 BOARD CN0931
CN0003 4P GRY :VT
1 2 3 4
AC IN NC NC AC IN
AC IN 220V-240V 50Hz
B-SS4536<AEP>-F1.

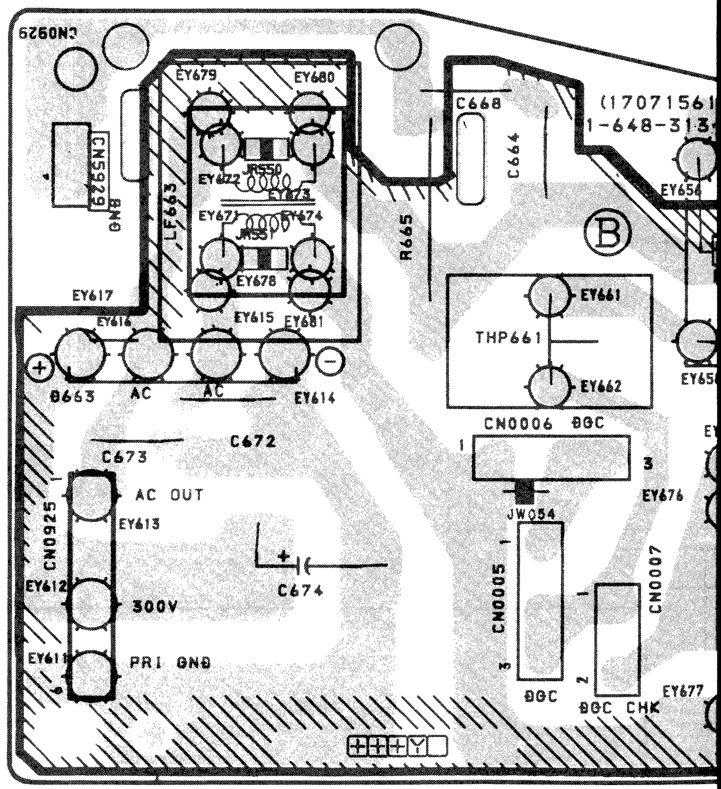
- H1 BOARD -

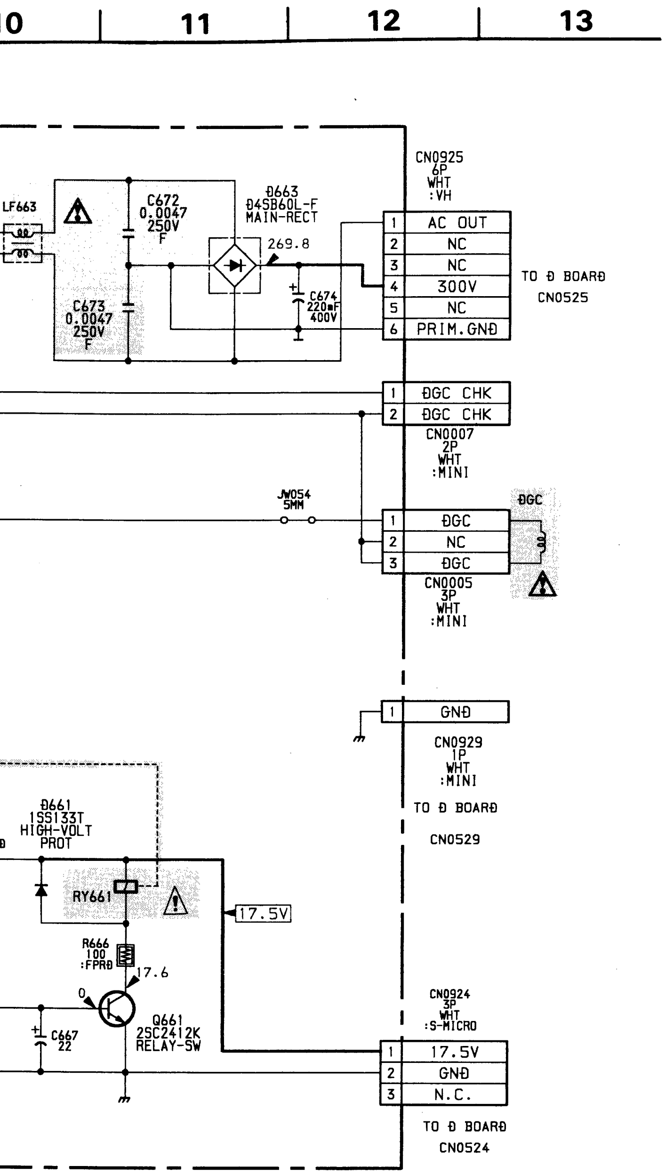

Y/C-3
J-81
J-82
HP
H1
L082
L081
CN1008
C084
C083
C089
C087

- H2 BOARD -


C163
D092
C162
IC091
R091
CN1132
C166
C161
D094
(1707230 1)
1-648-475-11

- F2 BOARD -

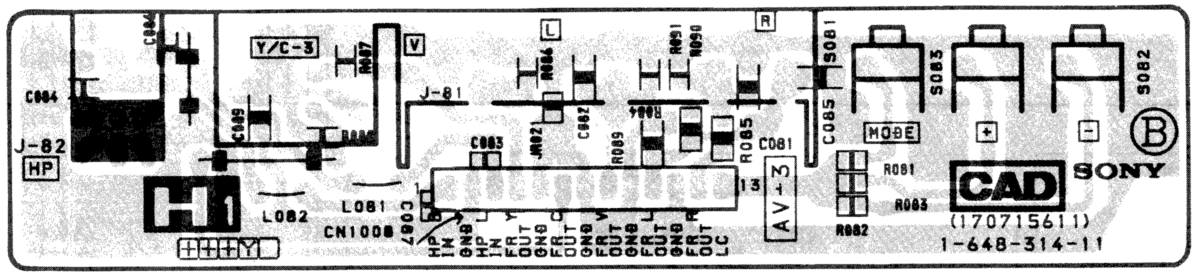

CN0929
EY679
EY680
C668
(17071561
1-648-313-
CN5929
C664
LF663
R665
EY617
EY616
EY615
EY681
THP661
EY661
EY662
D663
AC
EY614
CN0006 DGC
C673
C672
AC OUT
EY613
CN0925
JW054
EY612
300V
C674
CN0005
CN0007
PRI GND
DGC
DGC CHK
EY677


11
12
13
LF663
C672
0.0047
250V
F
D663
D4SB60L-F
MAIN-RECT
269.8
C673
0.0047
250V
F
C674
220mF
400V
CN0925
6P
WHT
:VH
1 AC OUT
2 NC
3 NC
4 300V
5 NC
6 PRIM.GND
TO D BOARD
CN0525
1 DGC CHK
2 DGC CHK
CN0007
2P
WHT
:MINI
JW054
5MM
DGC
1 DGC
2 NC
3 DGC
CN0005
3P
WHT
:MINI
1 GND
CN0929
1P
WHT
:MINI
TO D BOARD
CN0529
D661
1SS133T
HIGH-VOLT
PROT
RY661
17.5V
R666
100
:FPRD
17.6
0
C667
22
Q661
2SC2412K
RELAY-SW
CN0924
3P
WHT
:S-MICRO
1 17.5V
2 GND
3 N.C.
TO D BOARD
CN0524

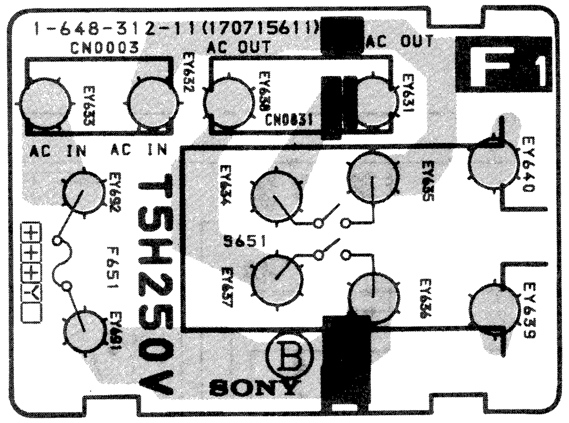
B-SS4536<AEP>-F2.

H1 [CONTROL SW, AUDIO OUT Y – CHROMA OUT, HEADPHONE] **H2** [SIRCS RECEIVE INDICATOR] **F2** [LINE FILTER, RELAY SW] **F1** [AC IN POWER SW]

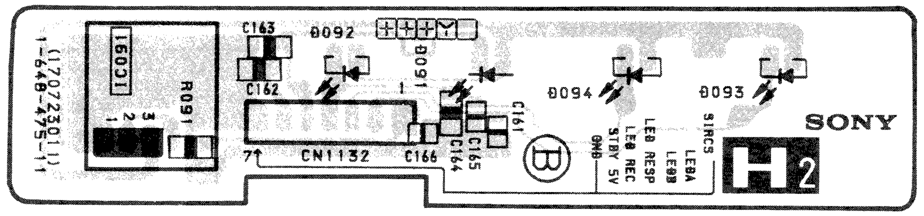
– H1 BOARD –


Y/C-3
V
L
R
J-81
J-82
HP
S081
S083
S082
MODE
+
–
C084
C089
L082
L081
CN1008
C081
C085
R081
R083
R082
AV-3
CAD
SONY
B
H1
(170715611)
1-648-314-11

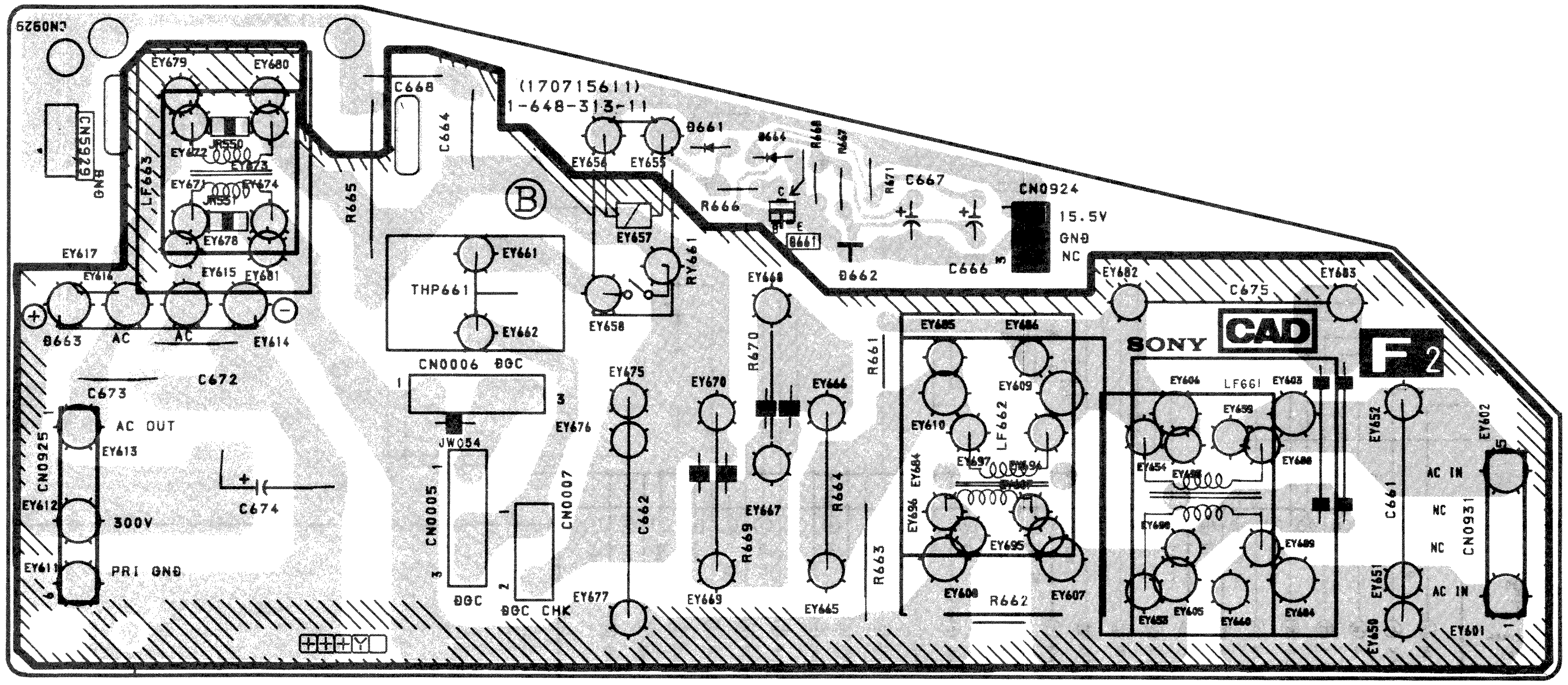
– F1 BOARD –


1-648-312-11(170715611)
CN0003
AC OUT
CN0831
EY633
EY632
EY631
EY640
AC IN
AC IN
EY652
EY634
EY635
S651
F651
T5H250V
EY636
EY639
SONY
B
F1

– H2 BOARD –


(170723011)
1-648-475-11
IC091
R091
C163
D092
D091
C162
CN1132
C166
C161
D094
D093
SIRCS
LEDA
LEDB
LED REC
LED RESP
STBY 5V
GND
SONY
B
H2

– F2 BOARD –

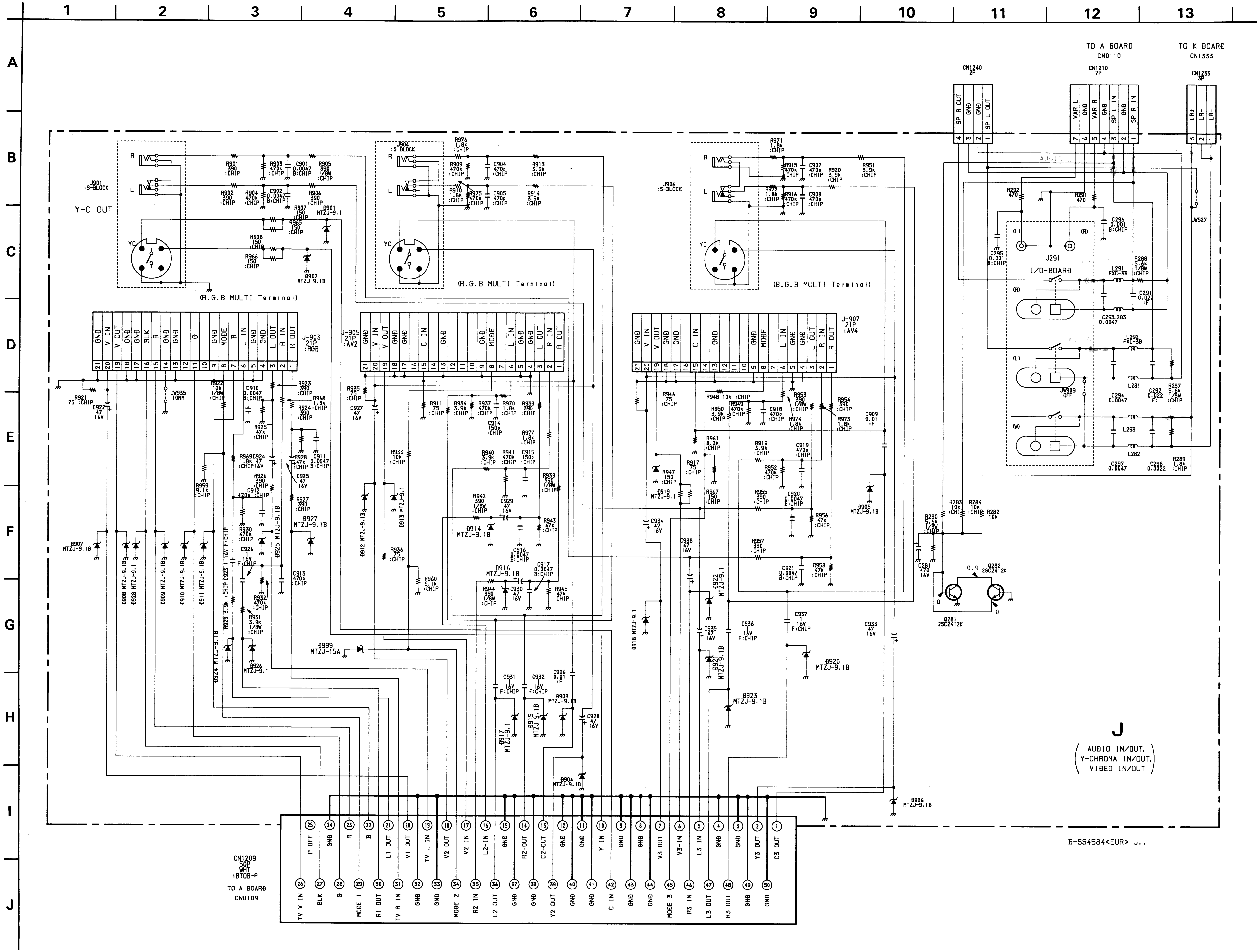

CN0929
GND
LF663
EY679
EY680
JR550
JR551
EY678
EY617
EY615
EY681
D663
AC
AC
EY614
C668
C664
(170715611)
1-648-313-11
R665
B
D661
D664
EY656
EY655
EY657
RY661
R666
C667
CN0924
15.5V
GND
NC
D662
C666
THP661
EY661
EY662
EY658
C675
EY682
EY683
SONY
CAD
F2
C672
C673
AC OUT
EY613
CN0925
EY612
300V
EY611
PRI GND
C674
CN0006 DGC
JW054
CN0005
CN0007
DGC
DGC CHK
EY676
EY675
EY677
C662
EY670
R670
EY667
R669
EY669
EY666
R664
EY665
R661
R663
EY685
EY686
EY609
EY610
LF662
EY608
R662
EY607
EY604
LF661
EY603
C661
AC IN
NC
NC
AC IN
CN0931
EY602
EY601
EY651
EY650
EY652

Schematic diagrams

← F1 F2 H1 H2 boards

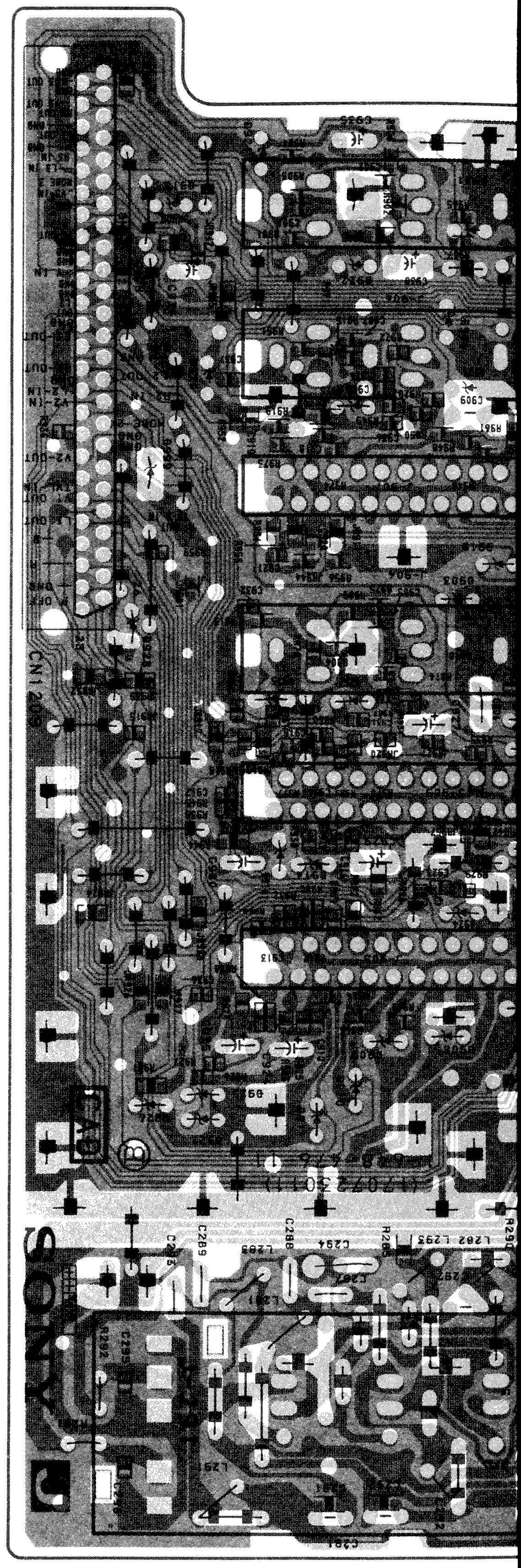
Schematic diagrams

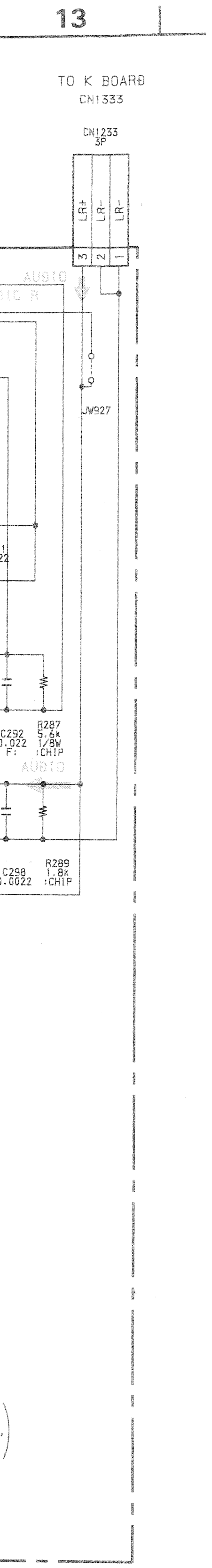
J boards →


1
2
3
4
5
6
7
8
9
10
11
12
13
A
B
C
D
E
F
G
H
I
J
TO A BOARD CN0110
TO K BOARD CN1333
CN1240 2P
CN1210 7P
CN1233 3P
SP R OUT
GND
GND
SP L OUT
VAR L
GND
VAR R
GND
SP L IN
GND
SP R IN
LR+
LR-
LR-
J901 :S-BLOCK
Y-C OUT
J904 :S-BLOCK
J906 :S-BLOCK
(R.G.B MULTI Terminal)
(R.G.B MULTI Terminal)
(R.G.B MULTI Terminal)
J-903 21P :RGB
J-905 21P :AV2
J-907 21P :AV4
J291
I/O-BOARD
JW927
JW909 OFF
JW935 10MM
Q282 2SC2412K
Q281 2SC2412K
D999 MTZJ-15A
D907 MTZJ-9.1B
D920 MTZJ-9.1B
D923 MTZJ-9.1B
D906 MTZJ-9.1B
D904 MTZJ-9.1B
D905 MTZJ-9.1B
J
AUDIO IN/OUT, Y-CHROMA IN/OUT, VIDEO IN/OUT
B-SS4584<EUR>-J..
CN1209 50P WHT :BTOB-P
TO A BOARD CN0109
P OFF
GND
R
B
L1 OUT
V1 OUT
TV L IN
V2 OUT
V2 IN
L2-IN
GND
R2-OUT
C2-OUT
GND
GND
Y IN
GND
GND
V3 OUT
V3-IN
L3 IN
GND
GND
Y3 OUT
C3 OUT
TV V IN
BLK
G
MODE 1
R1 OUT
TV R IN
GND
GND
MODE 2
R2 IN
L2 OUT
GND
GND
Y2 OUT
GND
GND
C IN
GND
GND
MODE 3
R3 IN
L3 OUT
R3 OUT
GND
GND

J [AUDIO IN/OUT VIDEO IN/OUT] A [TUNER, AU AV SW, R.C

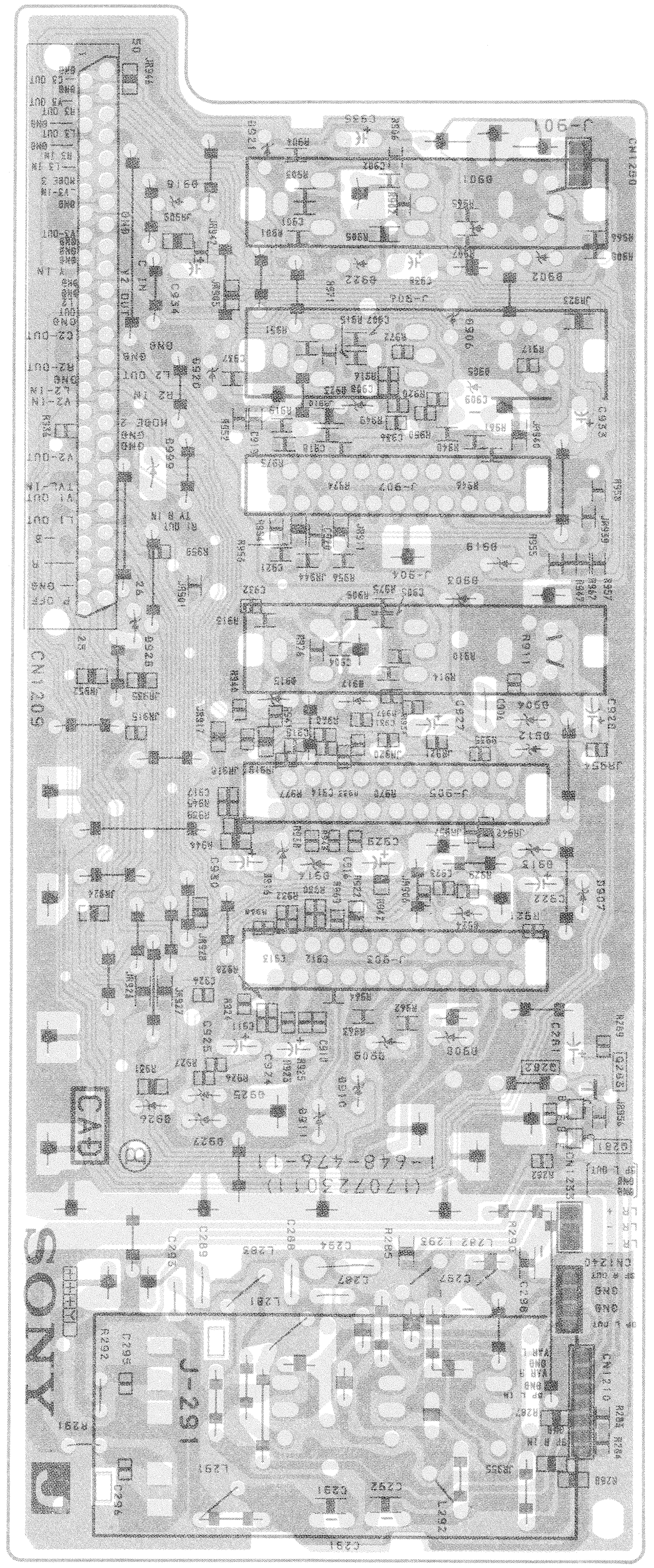
- J BOARD -




13
TO K BOARD
CN1333
CN1233
3P
LR+
LR-
LR-
3
2
1
JW927
R287
5.6k
1/8W
C292
0.022
R289
1.8k
C298
0.0022
CHIP

J [AUDIO IN/OUT VIDEO IN/OUT] **A** [TUNER, AUDIO, CONTROL, AUDIO AMP, AV SW, R.G.B JUNGLE, Y/C PROCESSOR]

- J BOARD -


CN1209
CN1210
J-291
SONY
CAD
1-648-476-11
(17072301 1)

IC	
IC072	B - 6
IC201	C - 6
IC202	C - 4
IC251	D - 4
IC261	D - 2
IC301	A - 8
IC302	A - 10
IC304	C - 10
IC401	C - 2
IC402	D - 2
IC681	D - 9
IC684	C - 4
IC685	E - 8

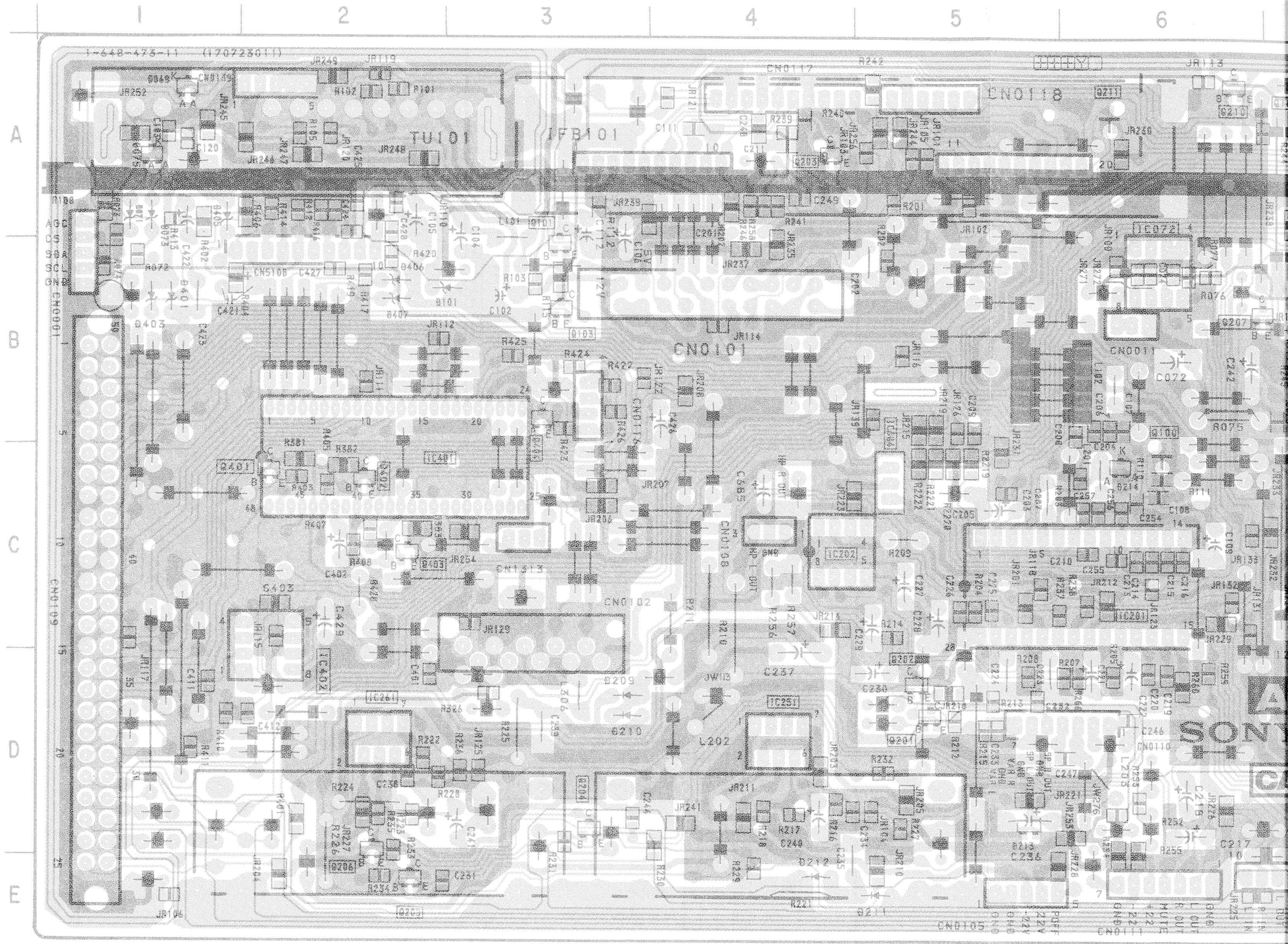
TRANSISTOR	
Q071	D - 8
Q101	A - 3
Q102	A - 7
Q103	A - 3
Q201	D - 5
Q202	D - 5
Q203	A - 4
Q204	D - 3
Q205	E - 2
Q206	D - 2
Q207	B - 6
Q209	E - 7
Q210	A - 6
Q301	A - 7
Q302	B - 7
Q303	D - 10
Q304	D - 10
Q305	A - 8
Q306	D - 10
Q308	C - 9
Q309	C - 9
Q311	C - 8
Q312	C - 8
Q313	B - 8
Q314	C - 7
Q315	D - 7
Q401	C - 2
Q402	C - 2
Q403	C - 2
Q404	B - 3
Q581	B - 9
Q582	B - 9
Q610	E - 9
Q681	E - 7
Q682	D - 9

DIODE	
D068	B - 7
D069	A - 1
D071	A - 1
D073	A - 1
D075	A - 1
D077	B - 7
D078	B - 7
D079	B - 7
D101	B - 2
D206	D - 7
D207	E - 7
D208	D - 7
D209	D - 3
D210	D - 3
D211	E - 5
D212	E - 4
D213	D - 5
D214	C - 6
D301	B - 9
D302	A - 9
D304	B - 10
D305	C - 9
D306	D - 10
D307	D - 10
D308	D - 10
D311	C - 9
D312	C - 8
D313	C - 7
D381	C - 8
D401	B - 1
D403	B - 1
D405	A - 1
D406	B - 2
D407	B - 2
D571	B - 9
D681	E - 8
D683	D - 9

Note :

- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear side.

- A BOARD -


1
2
3
4
5
6
A
B
C
D
E
1-648-473-11 (17072301 1)
TU101
IFB101
CN0118
CN0101
CN0102
CN0109
CN0105
CN0011
IC072
IC401
IC402
IC261
IC251
IC202
IC201
SONY

AMP,
CESSOR]

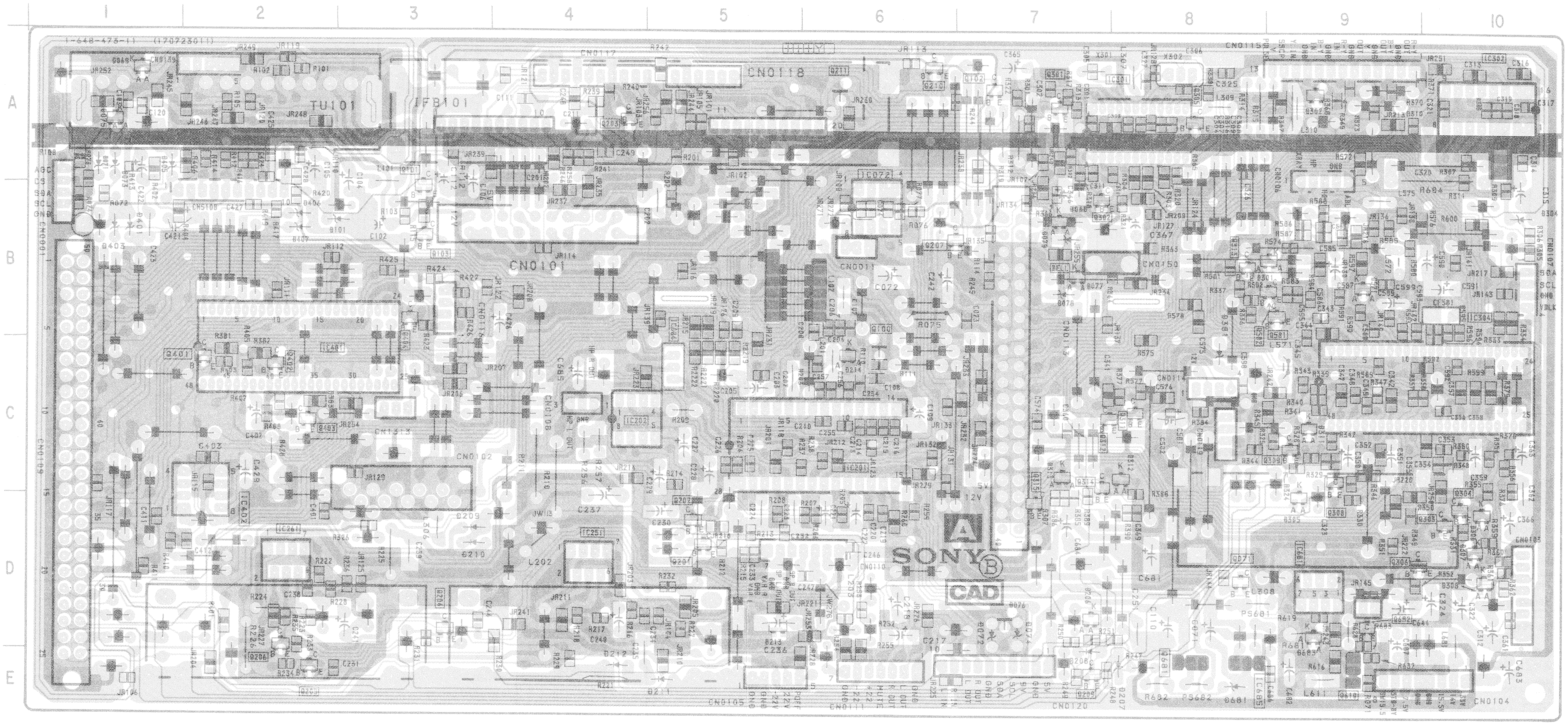
IC	
2	B - 6
1	C - 6
2	C - 4
1	D - 4
1	D - 2
1	A - 8
2	A - 10
4	C - 10
1	C - 2
2	D - 2
1	D - 9
4	C - 4
5	E - 8

ANSISTOR	
	D - 8
	A - 3
2	A - 7
3	A - 3
	D - 5
2	D - 5
3	A - 4
4	D - 3
5	E - 2
6	D - 2
7	B - 6
9	E - 7
0	A - 6
	A - 7
2	B - 7
3	D - 10
4	D - 10
5	A - 8
6	D - 10
8	C - 9
9	C - 9
	C - 8
2	C - 8
3	B - 8
4	C - 7
5	D - 7
	C - 2
2	C - 2
3	C - 2
Q404	B - 3
Q581	B - 9
Q582	B - 9
Q610	E - 9
Q681	E - 7
Q682	D - 9

DIODE	
D068	B - 7
D069	A - 1
D071	A - 1
D073	A - 1
D075	A - 1
D077	B - 7
D078	B - 7
D079	B - 7
D101	B - 2
D206	D - 7
D207	E - 7
D208	D - 7
D209	D - 3
D210	D - 3
D211	E - 5
D212	E - 4
D213	D - 5
D214	C - 6
D301	B - 9
D302	A - 9
D304	B - 10
D305	C - 9
D306	D - 10
D307	D - 10
D308	D - 10
D311	C - 9
D312	C - 8
D313	C - 7
D381	C - 8
D401	B - 1
D403	B - 1
D405	A - 1
D406	B - 2
D407	B - 2
D571	B - 9
D681	E - 8
D683	D - 9

attern from the side which enables seeing.
attern of the rear side.

– A BOARD –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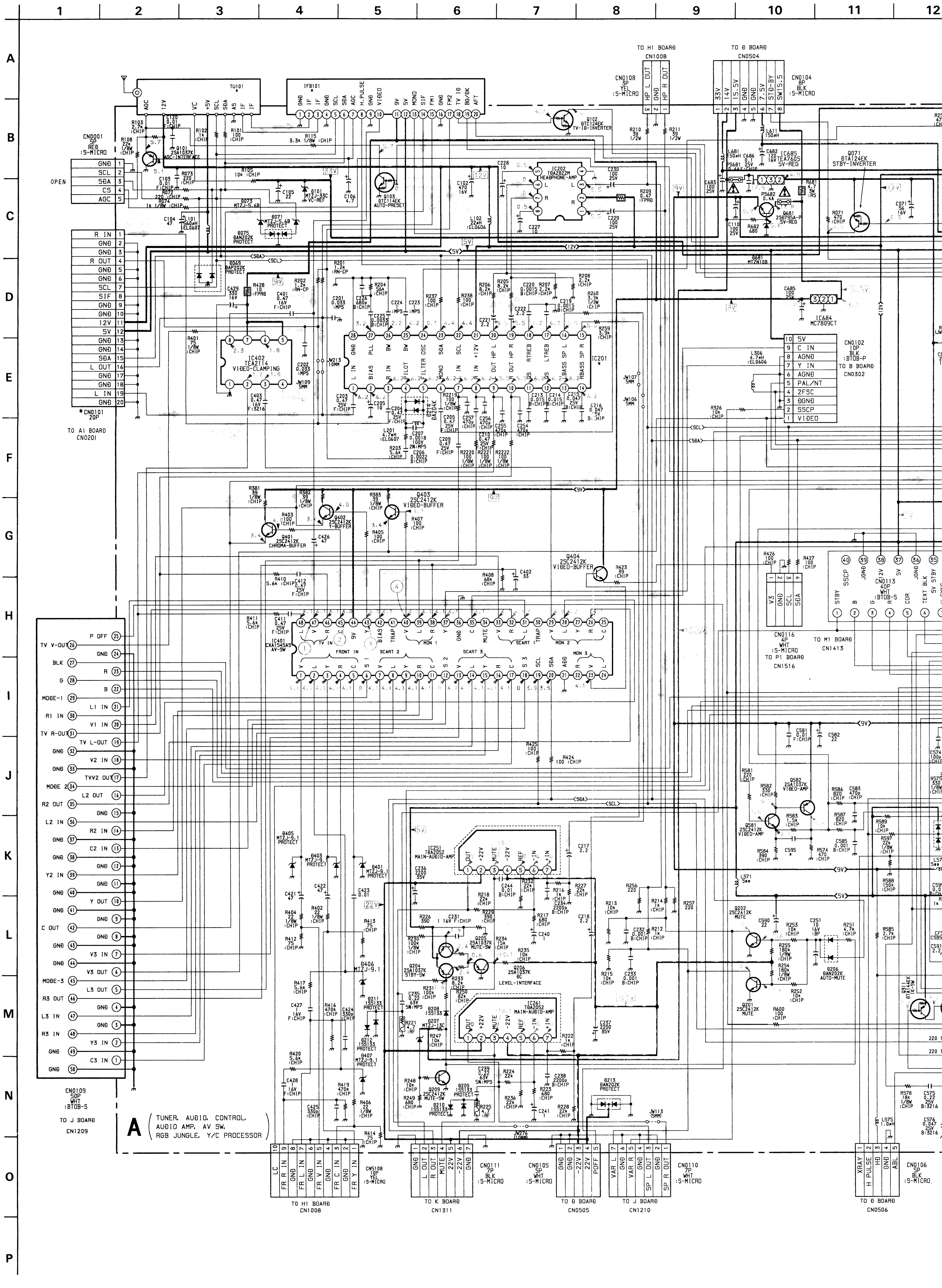
A
B
C
D
E
1-648-473-11
TU101
IFB101
CN0118
CN0101
CN0102
CN0109
CN0104
CN0105
CN0120
CN0115
IC401
IC402
IC251
IC202
SONY
A
B
CAD
12V
5V

Note :
- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear side.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A
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D
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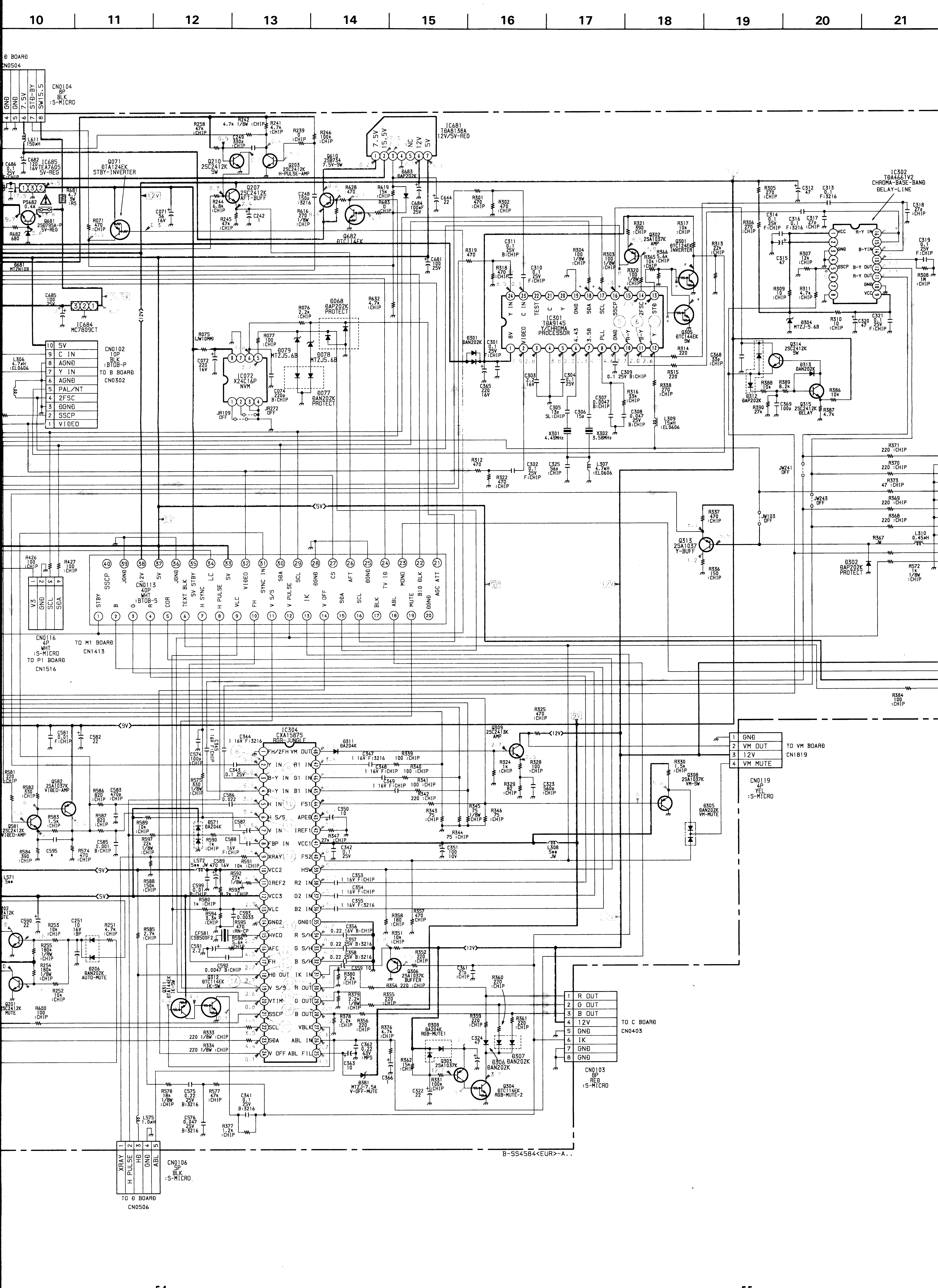
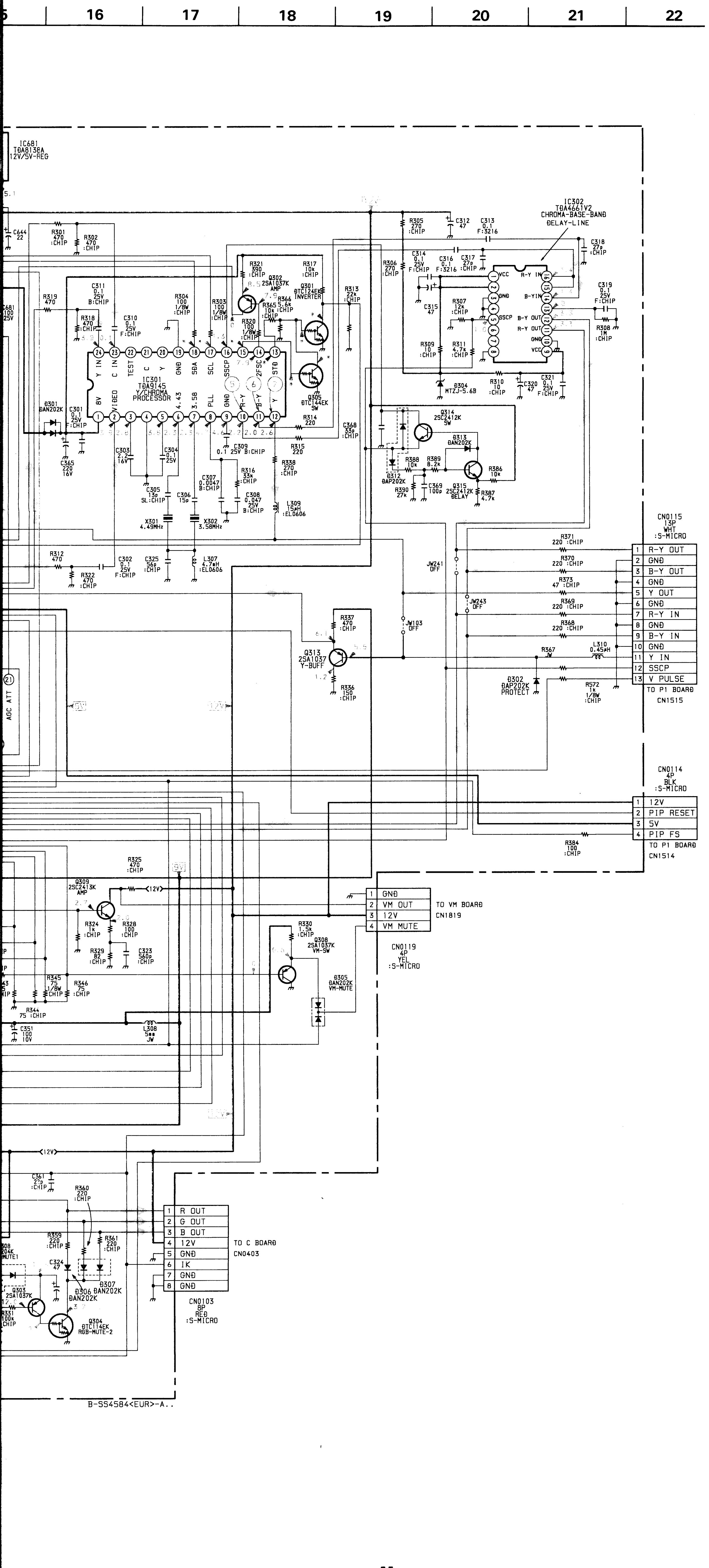
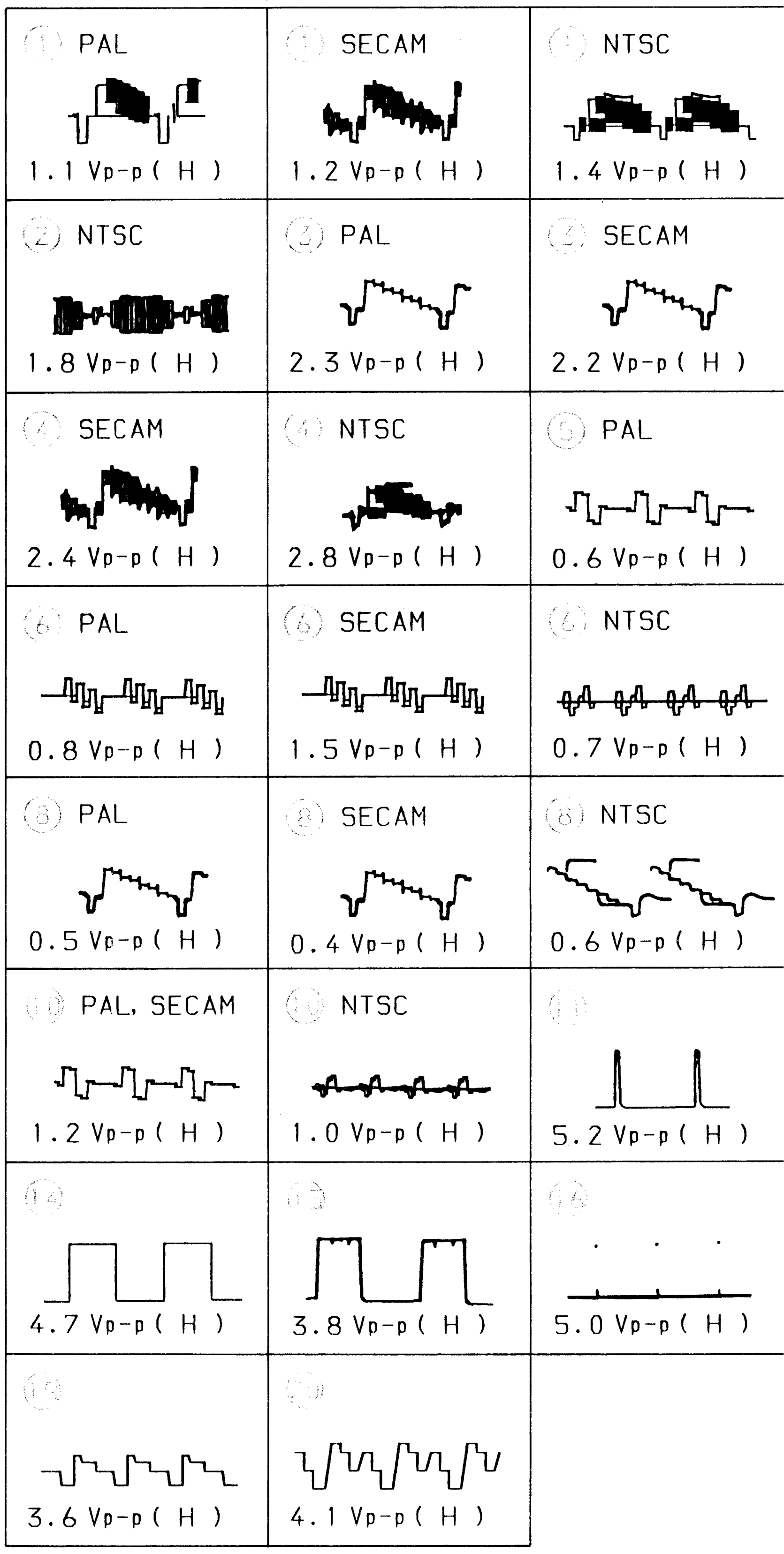
G
H
I
J
K
L
M
N
O
P
TU101
IFB101
CN0001 5P RED :S-MICRO
OPEN
GND
SCL
SDA
CS
AGC
R IN
GND
R OUT
SCL
SIF
12V
5V
L OUT
L IN
*CN0101 20P
TO A1 BOARD CN0201
Q101 2SA1037K AGC-INTERFACE
D101 MTZJ-33C VC-REF
Q103 DTC114EK AUTO-PRESET
D073 MTZJ-5.6B
D071 MTZJ-5.6B PROTECT
D075 DAN202K PROTECT
D069 DAP202K PROTECT
Q102 DTC124EK TV-10-INVERTER
IC202 TDA2822M HEADPHONE-AMP
TO H1 BOARD CN1008
CN0108 3P YEL :S-MICRO
HP L OUT
HP R OUT
TO D BOARD CN0504
CN0104 8P BLK :S-MICRO
33V
14V
15.5V
7.5V
STD-BY
SW15.5
IC685 TEA7605 5V-REG
Q681 2SD795A-P 5V-REG
Q071 DTA124EK STBY-INVERTER
D681 MTZN10B
IC684 MC7809CT
IC402 TDA2114 VIDEO-CLAMPING
IC201
CN0102 10P BLK :BTOB-P
TO B BOARD CN0302
C IN
AGND
Y IN
PAL/NT
2FSC
DGND
SSCP
VIDEO
Q401 2SC2412K CHROMA-BUFFER
Q402 2SC2412K Y-BUFFER
Q403 2SC2412K VIDEO-BUFFER
Q404 2SC2412K VIDEO-BUFFER
IC401 CXA1545AS AV-SW
TV IN
FRONT IN
SCART 2
SCART 3
MON 1
MON 2
MON 3
CN0116 4P WHT :S-MICRO
TO P1 BOARD CN1516
TO M1 BOARD CN1413
CN0113 40P WHT :BTOB-S
STBY
SSCP
TEXT BLK
5V STBY
P OFF
TV V-OUT
BLK
MODE-1
R1 IN
V1 IN
TV R-OUT
TV L-OUT
V2 IN
TVV2 OUT
MODE 2
L2 OUT
R2 OUT
L2 IN
R2 IN
C2 IN
Y2 IN
Y OUT
C OUT
V3 IN
V3 OUT
MODE-3
L3 OUT
R3 OUT
L3 IN
R3 IN
Y3 IN
C3 IN
CN0109 50P WHT :BTOB-S
TO J BOARD CN1209
D405 MTZJ-9.1 PROTECT
D403 MTZJ-9.1 PROTECT
D401 MTZJ-9.1 PROTECT
D406 MTZJ-9.1
D407 MTZJ-9.1 PROTECT
D211 1SS133 PROTECT
D212 1SS133 PROTECT
IC251 TDA2052 MAIN-AUDIO-AMP
IC261 TDA2052 MAIN-AUDIO-AMP
Q204 2SA1037K STBY-SW
Q205 2SA1037K MUTE-SW
Q206 2SA1037K DC LEVEL-INTERFACE
D207 MTZJ-13C
D208 1SS133 PROTECT
D209 1SS133 PROTECT
D210 1SS133 PROTECT
Q209 2SC2412K MUTE-SW
D213 DAN202K PROTECT
Q581 2SC2412K VIDEO-AMP
Q582 2SA1037K VIDEO-AMP
Q202 2SC2412K MUTE
Q201 2SC2412K MUTE
D206 DAN202K AUTO-MUTE
Q311 DTC144EK
A
TUNER, AUDIO, CONTROL, AUDIO AMP, AV SW, RGB JUNGLE, Y/C PROCESSOR
CN5108 10P YEL :S-MICRO
TO H1 BOARD CN1008
CN0111 7P BLK :S-MICRO
TO K BOARD CN1311
CN0105 5P WHT :S-MICRO
TO D BOARD CN0505
CN0110 7P WHT :S-MICRO
TO J BOARD CN1210
CN0106 5P BLK :S-MICRO
TO D BOARD CN0506
XRAY
H PULSE
HD
ABL
LC
FR R IN
FR L IN
FR V IN
FR C IN
FR Y IN
L OUT
R OUT
MUTE
22V
-22V
POFF
VAR L
VAR R
SP L OUT
SP R OUT


10
11
12
13
14
15
16
17
18
19
20
21
TO D BOARD CN0504
CN0104 8P BLK :S-MICRO
GND
GND
7.5V
STD-BY
SW15.5
IC685 TEA7605 5V-REG
Q681 2SD795A-P 5V-REG
PS682 0.4A
Q071 DTA124EK STBY-INVERTER
Q210 2SC2412K SW
Q203 2SC2412K H-PULSE-AMP
Q207 2SC2412K AFT-BUFF
IC681 TDA8138A 12V/5V-REG
7.5V
15.5V
NC
12V
5V
Q610 2SB734 7.5V-SW
Q682 DTC114EK
D683 DAP202K
D681 MTZN10B
IC684 MC7809CT
CN0102 10P BLK :BTOB-P TO B BOARD CN0302
5V
C IN
AGND
Y IN
AGND
PAL/NT
2FSC
DGND
SSCP
VIDEO
D068 DAP202K PROTECT
D079 MTZJ5.6B
D078 MTZJ5.6B
D077 DAN202K PROTECT
IC072 X24C16P NVM
IC301 TDA9145 Y/CHROMA PROCESSOR
Q302 2SA1037K AMP
Q301 DTC124EK INVERTER
Q305 DTC144EK SW
X301 4.49MHz
X302 3.58MHz
D301 DAN202K
D304 MTZJ-5.6B
IC302 TDA4661V2 CHROMA-BASE-BAND DELAY-LINE
Q314 2SC2412K SW
D313 DAN202K
D312 DAP202K
Q315 2SC2412K DELAY
CN0116 4P WHT :S-MICRO TO P1 BOARD CN1516
V3
GND
SCL
SDA
CN0113 40P WHT :BTOB-S TO M1 BOARD CN1413
STBY
B
G
R
COR
TEXT BLK
H SYNC
H PULSE
VLC
FH
V S/S
V PULSE
IK
V OFF
SDA
SCL
BLK
ABL
MUTE
DGND
AGC ATT
BIG DLK
MONO
TV ID
DGND
AFT
CS
DGND
SCL
SDA
SYNC IN
VIDEO
5V
LC
5V STBY
JGND
5V
12V
JGND
SSCP
Q313 2SA1037 Y-BUFF
D302 DAP202K PROTECT
JW241 OFF
JW243 OFF
JW103 OFF
IC304 CXA1587S RGB-JUNGLE
Q582 2SA1037K VIDEO-AMP
Q581 2SC2412K VIDEO-AMP
D571 DA204K
CF581 CSB500F2
Q312 DTC114EK IK-SW
Q311 DTC114EK IK-SW
Q309 2SC2413K AMP
D311 DA204K
Q308 2SA1037K VM-SW
D305 DAN202K VM-MUTE
CN0119 4P YEL :S-MICRO TO VM BOARD CN1819
GND
VM OUT
12V
VM MUTE
Q306 2SA1037K BUFFER
D308 DA204K RGB-MUTE1
Q303 2SA1037K
Q304 DTC114EK RGB-MUTE-2
D306 DAN202K
D307 DAN202K
D381 MTZJ-7.5A V-OFF-MUTE
CN0103 8P RED :S-MICRO TO C BOARD CN0403
R OUT
G OUT
B OUT
12V
GND
IK
GND
GND
D206 DAN202K AUTO-MUTE
Q201 2SC2412K MUTE
CN0106 5P BLK :S-MICRO TO D BOARD CN0506
XRAY
H PULSE
HD
GND
ABL
B-SS4584<EUR>-A..

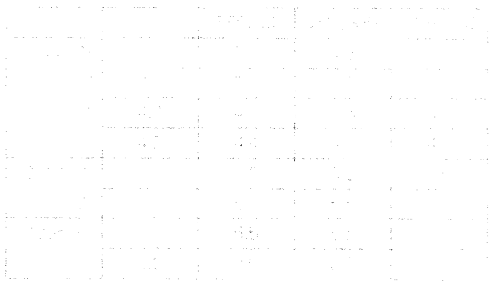

16
17
18
19
20
21
22
IC681 TDA8138A 12V/5V-REG
IC301 TDA9145 Y/CHROMA PROCESSOR
IC302 TDA4661V2 CHROMA-BASE-BAND DELAY-LINE
Q302 2SA1037K AMP
Q301 DTC124EK INVERTER
Q305 DTC144EK SW
Q314 2SC2412K SW
D313 DAP202K
D312 DAP202K
Q315 2SC2412K DELAY
D304 MTZJ-5.6B
X301 4.43MHz
X302 3.58MHz
L309 15µH :EL0606
L307 4.7µH :EL0606
Q313 2SA1037 Y-BUFF
D302 DAP202K PROTECT
CN0115 13P WHT :S-MICRO
R-Y OUT
GND
B-Y OUT
GND
Y OUT
GND
R-Y IN
GND
B-Y IN
GND
Y IN
SSCP
V PULSE
TO P1 BOARD CN1515
CN0114 4P BLK :S-MICRO
12V
PIP RESET
5V
PIP FS
TO P1 BOARD CN1514
Q309 2SC2413K AMP
Q308 2SA1037K VM-SW
D305 DAN202K VM-MUTE
GND
VM OUT
12V
VM MUTE
TO VM BOARD CN1819
CN0119 4P YEL :S-MICRO
AGC ATT
R OUT
G OUT
B OUT
12V
GND
IK
GND
GND
TO C BOARD CN0403
CN0103 8P RED :S-MICRO
Q303 2SA1037K
D306 DAN202K
D307
Q304 DTC114EK RGB-MUTE-2
B-SS4584<EUR>-A..

• WAVEFORMS A BOARD



As to the voltage value shown by the mark ✱ on the Schematic Diagram, see the another list.

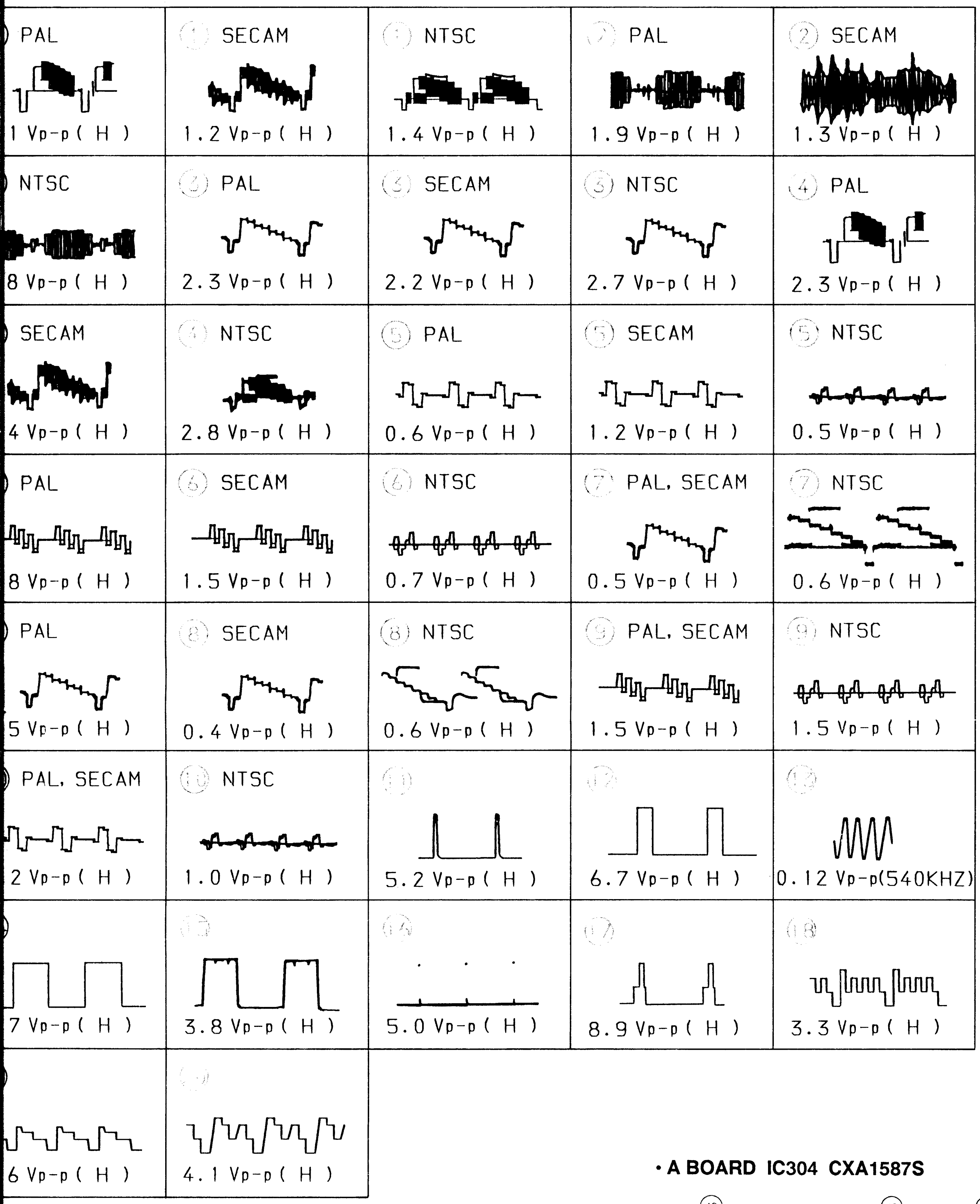
A BOARD



A BOARD ∗ MARK

Model	Italian	French	AEP	Spanish	UK
C595	–	–	–	47PF／50V	47PF／
CN0101	–	–	–	20P	20P
IC201	TDA6612	TDA6612	TDA6612	TDA6612	TDA66
IFB101	IFH-389	IFH-389F	IFH-389	IFH-389	IFH-3
TU101	UV916H	BTP-EC411	UV916H	UV916H	UV94

AVEFORMS A BOARD



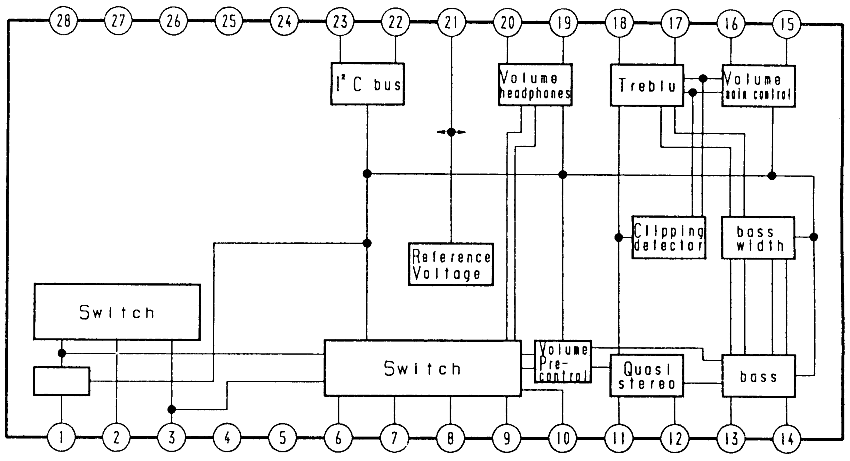
to the [illegible] shown by
mark [illegible] the schematic
gram. [illegible]

OARD

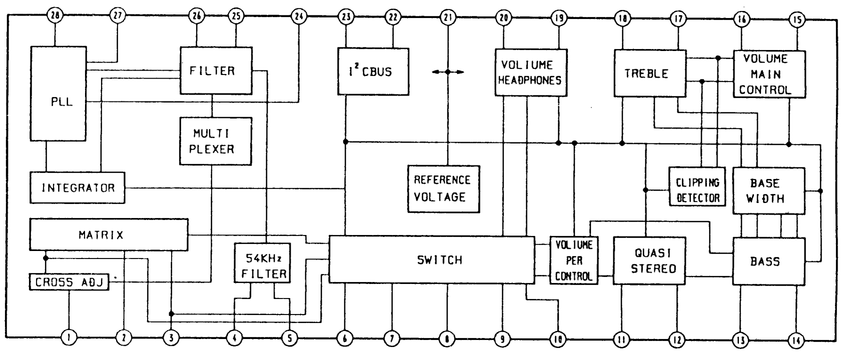
DARD ∗ MARK

odel	Italian	French	AEP	Spanish	UK
5	–	–	–	47PF／50V	47PF／50V
101	–	–	–	20P	20P
01	TDA6612	TDA6612	TDA6612	TDA6612	TDA6622
01	IFH-389	IFH-389F	IFH-389	IFH-389	IFH-395
01	UV916H	BTP-EC411	UV916H	UV916H	UV944C

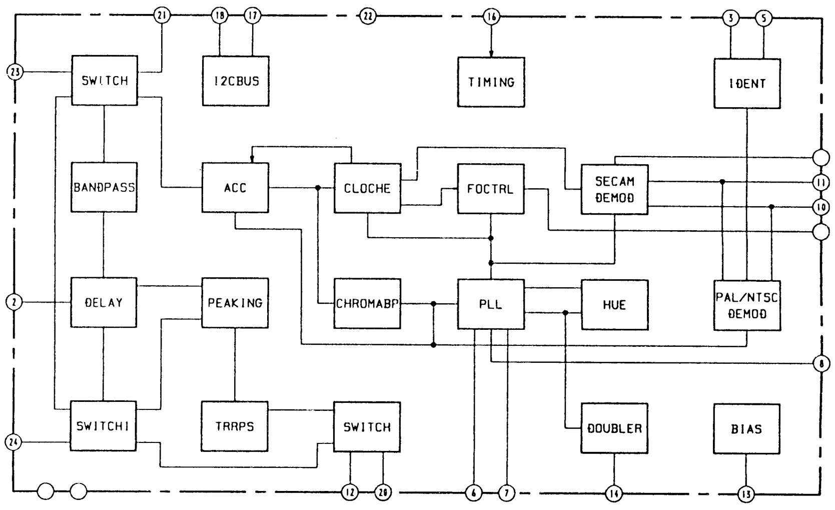
• A BOARD IC201 TDA6622 (UK Model only)


I²C bus
Volume headphones
Treblu
Volume main control
Reference Voltage
Clipping detector
bass width
Switch
Switch
Volume Pre-control
Quasi stereo
bass

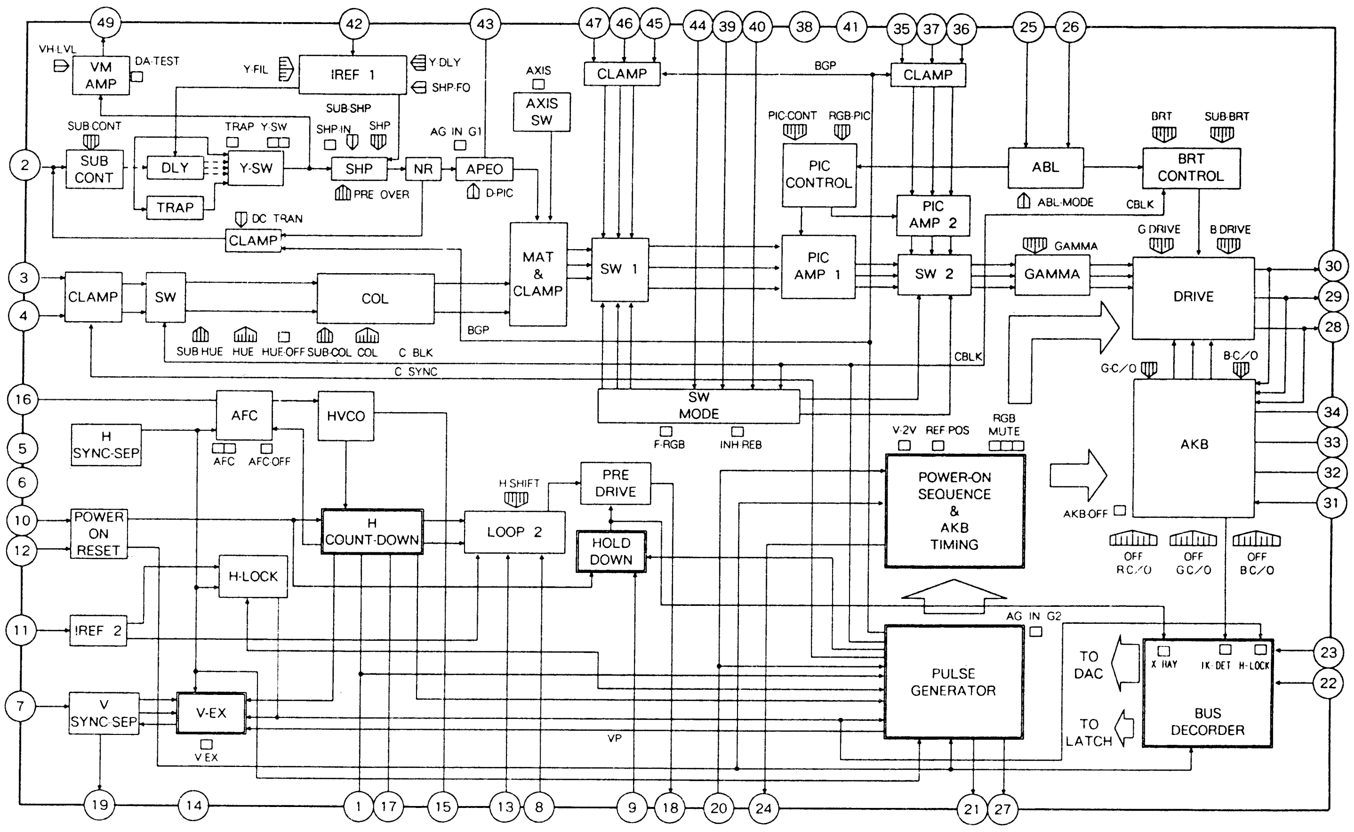
• A BOARD IC201 TDA6612


PLL
FILTER
MULTI PLEXER
I²CBUS
VOLUME HEADPHONES
TREBLE
VOLUME MAIN CONTROL
REFERENCE VOLTAGE
CLIPPING DETECTOR
BASE WIDTH
INTEGRATOR
MATRIX
CROSS ADJ
54KHz FILTER
SWITCH
VOLUME PER CONTROL
QUASI STEREO
BASS

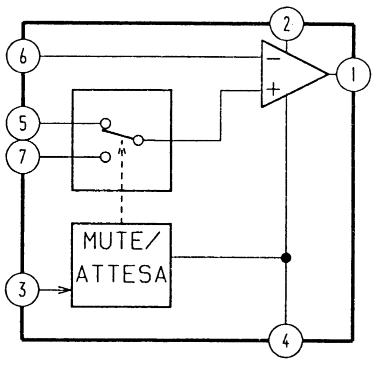
• A BOARD IC301 TDA9145


SWITCH
I2CBUS
TIMING
IDENT
BANDPASS
ACC
CLOCHE
FOCTRL
SECAM DEMOD
DELAY
PEAKING
CHROMABP
PLL
HUE
PAL/NTSC DEMOD
SWITCHI
TRAPS
SWITCH
DOUBLER
BIAS

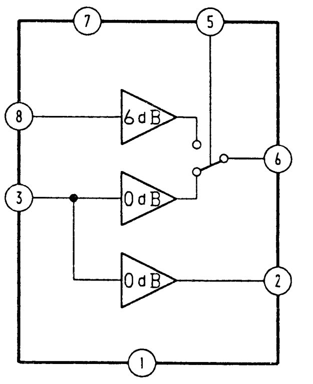
• A BOARD IC304 CXA1587S


VH LVL
VM AMP
DA TEST
Y FIL
IREF 1
Y DLY
SHP FO
AXIS
AXIS SW
CLAMP
BGP
CLAMP
SUB CONT
TRAP Y SW
SUB SHP
SHP IN
SHP
AG IN G1
PIC CONT
RGB PIC
BRT
SUB BRT
SUB CONT
DLY
Y-SW
SHP
NR
APEO
PIC CONTROL
ABL
BRT CONTROL
TRAP
PRE OVER
D PIC
PIC AMP 2
ABL MODE
CBLK
DC TRAN
CLAMP
GAMMA
G DRIVE
B DRIVE
MAT & CLAMP
SW 1
PIC AMP 1
SW 2
GAMMA
DRIVE
CLAMP
SW
COL
SUB HUE
HUE
HUE OFF
SUB COL
COL
C BLK
BGP
C SYNC
CBLK
G C/O
B C/O
AFC
HVCO
SW MODE
RGB MUTE
H SYNC SEP
AFC
AFC OFF
F RGB
INH REB
V 2V
REF POS
AKB
H SHIFT
PRE DRIVE
POWER-ON SEQUENCE & AKB TIMING
POWER ON RESET
H COUNT DOWN
LOOP 2
HOLD DOWN
AKB OFF
OFF RC/O
OFF GC/O
OFF BC/O
H-LOCK
AG IN G2
IREF 2
PULSE GENERATOR
TO DAC
X RAY
IK DET
H-LOCK
V SYNC SEP
V-EX
TO LATCH
BUS DECORDER
V EX
VP

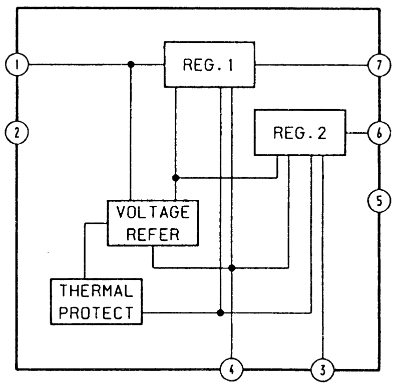
• A BOARD IC251/261 TDA2052


MUTE/ ATTESA

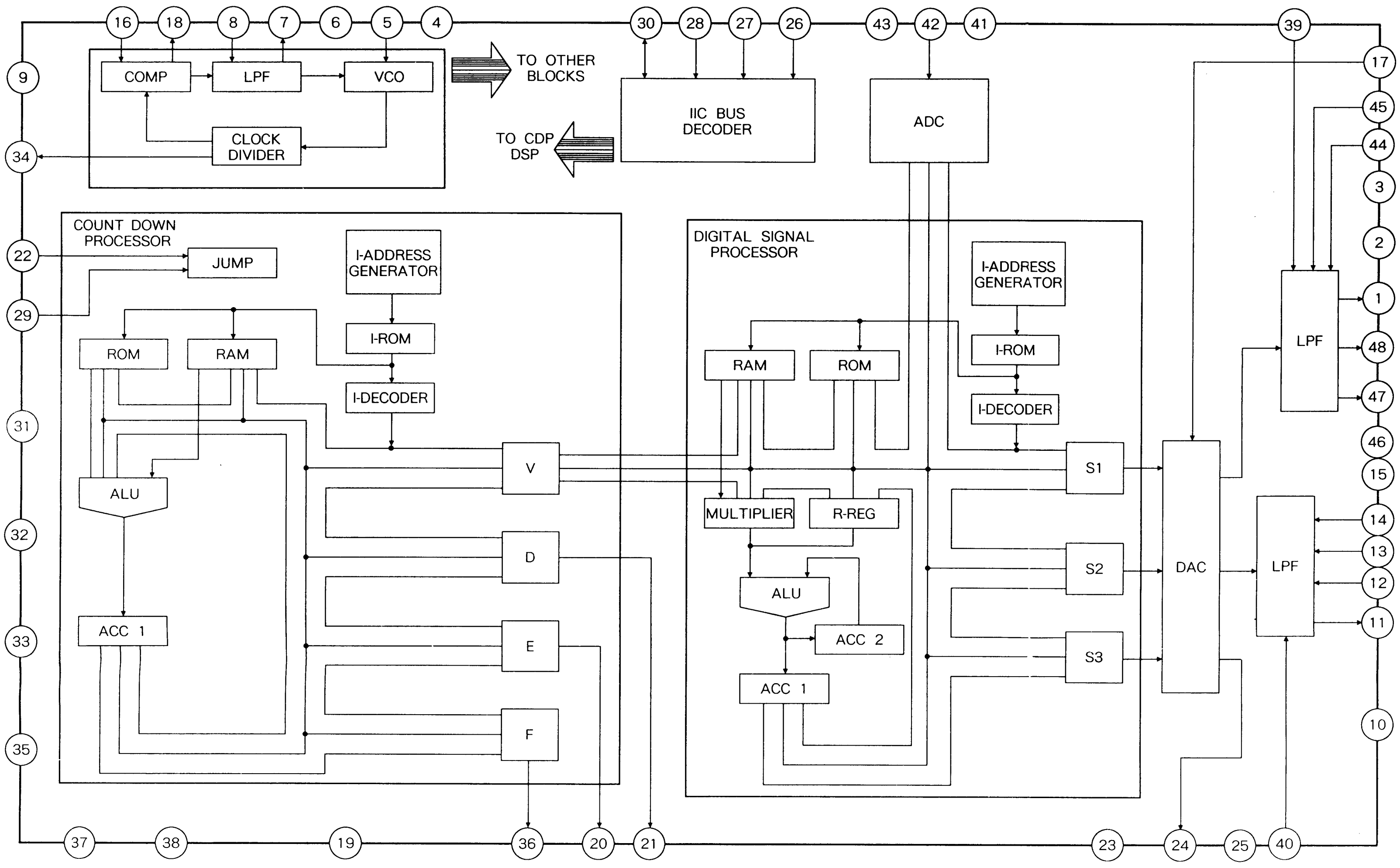
• A BOARD IC402 TEA2114



• A BOARD IC681 TDA8134A


REG. 1
REG. 2
VOLTAGE REFER
THERMAL PROTECT

• M1 BOARD IC561 CXD2018Q


16
18
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27
26
43
42
41
39
9
COMP
LPF
VCO
CLOCK DIVIDER
34
TO OTHER BLOCKS
IIC BUS DECODER
TO CDP DSP
ADC
17
45
44
3
2
1
48
47
46
15
14
13
12
11
10
COUNT DOWN PROCESSOR
22
JUMP
29
I-ADDRESS GENERATOR
I-ROM
I-DECODER
ROM
RAM
31
ALU
32
ACC 1
33
35
V
D
E
F
DIGITAL SIGNAL PROCESSOR
RAM
ROM
MULTIPLIER
R-REG
ALU
ACC 2
ACC 1
S1
S2
S3
DAC
LPF
LPF
37
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36
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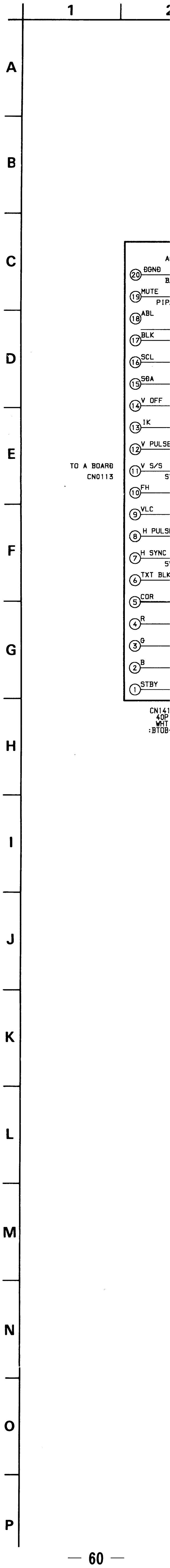
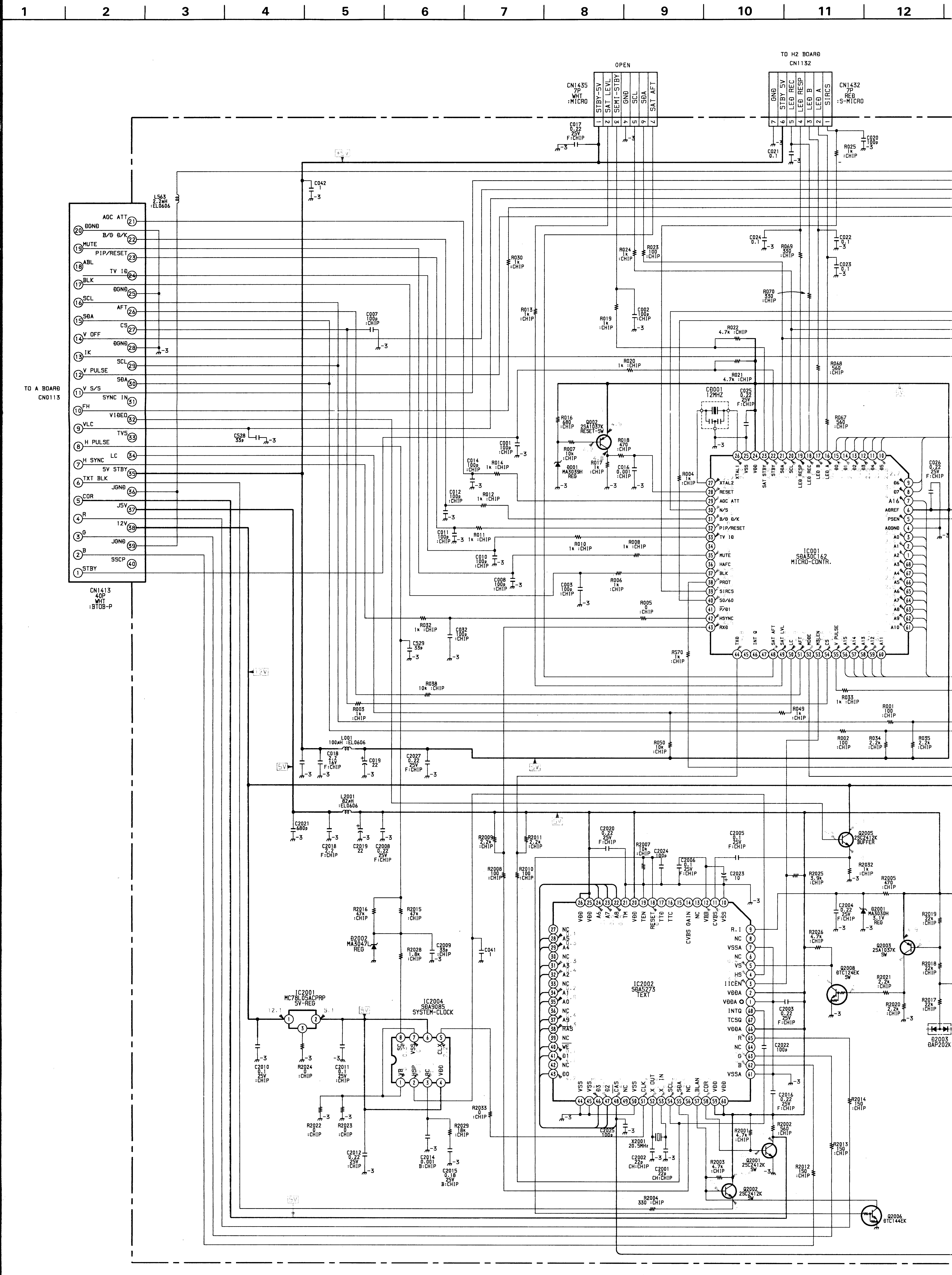

1
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
20 DGND
19 MUTE
18 ABL
17 BLK
16 SCL
15 SDA
14 V OFF
13 IK
12 V PULSE
11 V S/S
10 FH
9 VLC
8 H PULSE
7 H SYNC
6 TXT BLK
5 COR
4 R
3 G
2 B
1 STBY
TO A BOARD CN0113
CN141 40P WHT :BTOB-



1
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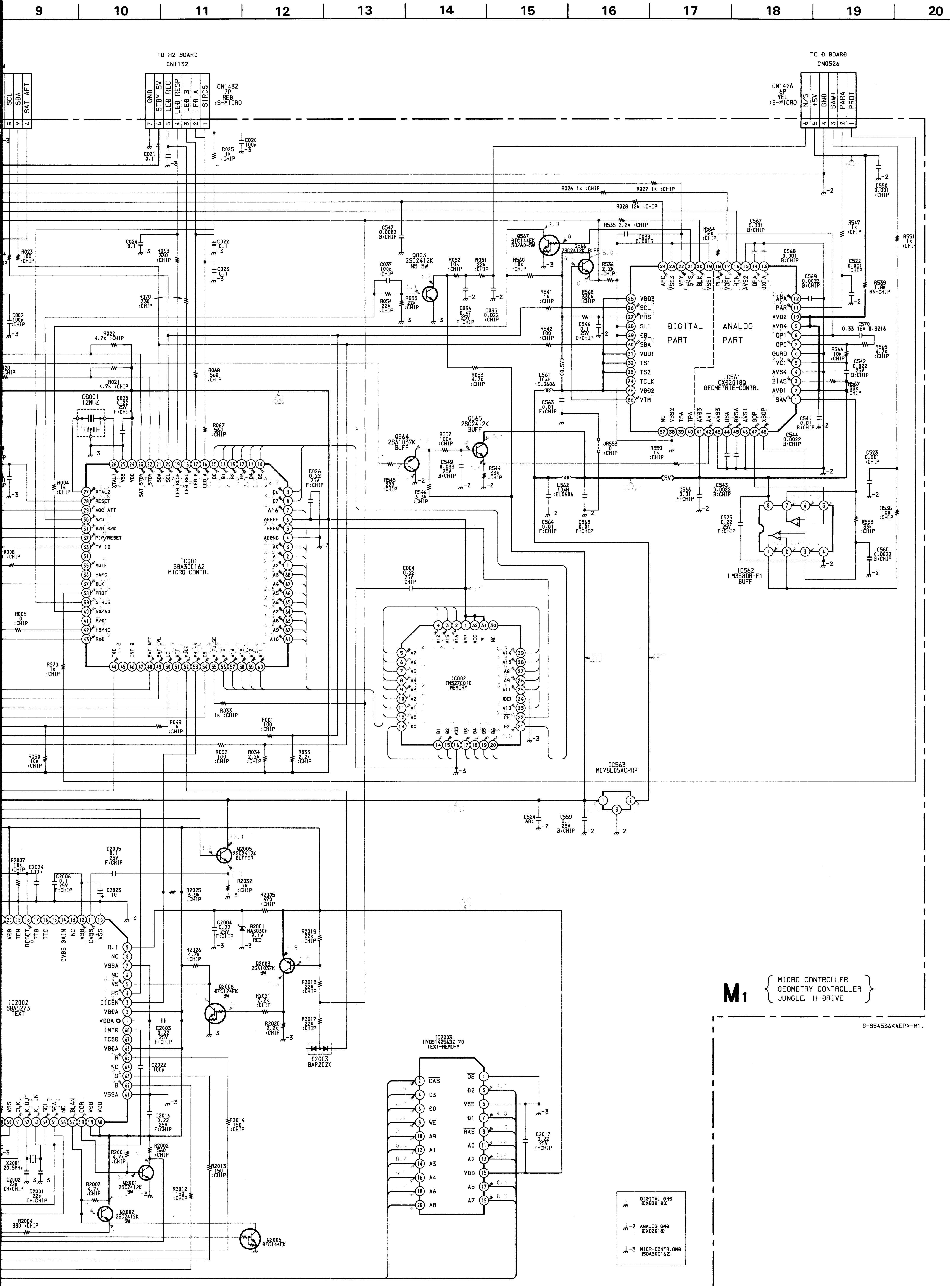
12
OPEN
CN1435 7P WHT :MICRO
STBY-5V
SAT LEVL
SEMI-STBY
GND
SCL
SDA
SAT AFT
TO H2 BOARD CN1132
GND
STBY 5V
LED REC
LED RESP
LED B
LED A
SIRCS
CN1432 7P RED :S-MICRO
C017 0.22 25V F:CHIP
C020 100p
R025 1k :CHIP
C021 0.1
+5V
C042 1
L563 2.2mH :EL0606
TO A BOARD CN0113
AGC ATT
DGND
B/G D/K
MUTE
PIP/RESET
ABL
TV ID
BLK
SCL
AFT
SDA
CS
V OFF
IK
V PULSE
V S/S
SYNC IN
FH
VIDEO
VLC
TV5
H PULSE
LC
H SYNC
5V STBY
TXT BLK
JGND
COR
J5V
R
12V
G
B
SSCP
STBY
CN1413 40P WHT :BTOB-P
C007 100p :CHIP
C528 33p
R030 1k :CHIP
R013 1k :CHIP
R024 1k :CHIP
R023 100 :CHIP
R019 1k :CHIP
C002 100p :CHIP
C024 0.1
R069 330 :CHIP
C022 0.1
C023 0.1
R070 330 :CHIP
R022 4.7k :CHIP
R020 1k :CHIP
R021 4.7k :CHIP
R068 560 :CHIP
CD001 12MHZ
C025 0.22 25V F:CHIP
R016 680 :CHIP
Q002 2SA1037K RESET-SW
R018 470 :CHIP
R007 10k :CHIP
D001 MA3039H REG
R017 1k :CHIP
C016 0.001 :CHIP
R067 560 :CHIP
C001 100p :CHIP
C014 100p :CHIP
R014 1k :CHIP
R004 1k :CHIP
C012 100p :CHIP
R012 1k :CHIP
C011 100p :CHIP
R011 1k :CHIP
C010 100p :CHIP
R010 1k :CHIP
R008 1k :CHIP
C008 100p :CHIP
C003 100p :CHIP
R006 1k :CHIP
R005 0 :CHIP
R032 1k :CHIP
C032 100p :CHIP
C529 33p
R570 1k :CHIP
IC001 SDA30C162 MICRO-CONTR.
XTAL1
VSS
VDD
SAT STBY
STBY
SDA
SCL
LED RESP
LED REC
LED B
LED A
XTAL2
RESET
AGC ATT
N/S
B/G D/K
PIP/RESET
TV ID
MUTE
HAFC
BLK
PROT
SIRCS
50/60
P/D1
HSYNC
RXD
TXD
INT Q
SAT AFT
SAT LVL
LC
AFT
MODE
MSLEN
CS
V PULSE
A15
A14
A13
A12
A11
D6
D7
A16
ADREF
PSEN
ADGND
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
D0
D1
D2
D3
D4
D5
C026 0.22 25V F:CHIP
R038 10k :CHIP
R003 1k :CHIP
R049 1k :CHIP
R033 1k :CHIP
R001 100 :CHIP
R002 100 :CHIP
R034 2.2k :CHIP
R035 2.2k :CHIP
R050 10k :CHIP
L001 100mH :EL0606
C018 2.2 F:CHIP
C019 22
C2027 0.22 25V F:CHIP
12V
5V
L2001 82mH :EL0606
C2021 680p
C2018 2.2 F:CHIP
C2019 22
C2008 0.22 25V F:CHIP
R2009 2.2k :CHIP
R2011 2.2k :CHIP
R2008 100 :CHIP
R2010 100 :CHIP
C2020 0.22 25V F:CHIP
R2007 10k :CHIP
C2024 100p
C2006 0.1 25V F:CHIP
C2005 0.1 25V F:CHIP
C2023 10
Q2005 2SC2412K BUFFER
R2032 1k :CHIP
R2025 3.9k :CHIP
R2005 470 :CHIP
C2004 0.22 25V F:CHIP
D2001 MA3030H 3.1V REG
R2019 22k :CHIP
R2026 4.7k :CHIP
Q2003 2SA1037K SW
Q2008 DTC124EK SW
R2021 2.2k :CHIP
R2018 22k :CHIP
R2020 2.2k :CHIP
R2017 22k :CHIP
D2003 DAP202K
R2016 47k :CHIP
R2015 47k :CHIP
D2002 MA3047L REG
R2028 1.8k :CHIP
C2009 33p :CHIP
C041 1
IC2002 SDA5273 TEXT
VDD
A6
A7
A8
TM
TEN
RESET
TTC
CVBS GAIN
NC
VBB
CVBS
VSS
R.I
VSSA
VS
HS
ICEN
VDDA
INTQ
TCSQ
R
G
B
A5
A4
A3
A2
A1
A0
A9
RAS
D1
D0
D2
CAS
CLK
X OUT
X IN
SCL
SDA
BLAN
COR
C2003 0.22 25V F:CHIP
C2022 100p
C2016 0.22 25V F:CHIP
R2014 150 :CHIP
R2013 150 :CHIP
R2012 150 :CHIP
IC2001 MC78L05ACPRP 5V-REG
12.1
5.1
IC2004 SDA9085 SYSTEM-CLOCK
SC
VSS
CLK
VB
HSP
VCC
VDD
C2010 0.1 25V :CHIP
R2024 0 :CHIP
C2011 0.1 25V :CHIP
R2022 0 :CHIP
R2023 0 :CHIP
C2012 0.22 25V :CHIP
C2014 0.001 B:CHIP
C2015 0.18 25V B:CHIP
R2029 18k :CHIP
R2033 0 :CHIP
C2025 100p
X2001 20.5MHz
C2002 22p CH:CHIP
C2001 22p CH:CHIP
R2001 4.7k :CHIP
R2002 560 :CHIP
Q2001 2SC2412K SW
R2003 4.7k :CHIP
Q2002 2SC2412K SW
R2004 330 :CHIP
Q2006 DTC144EK
-3


9
10
11
12
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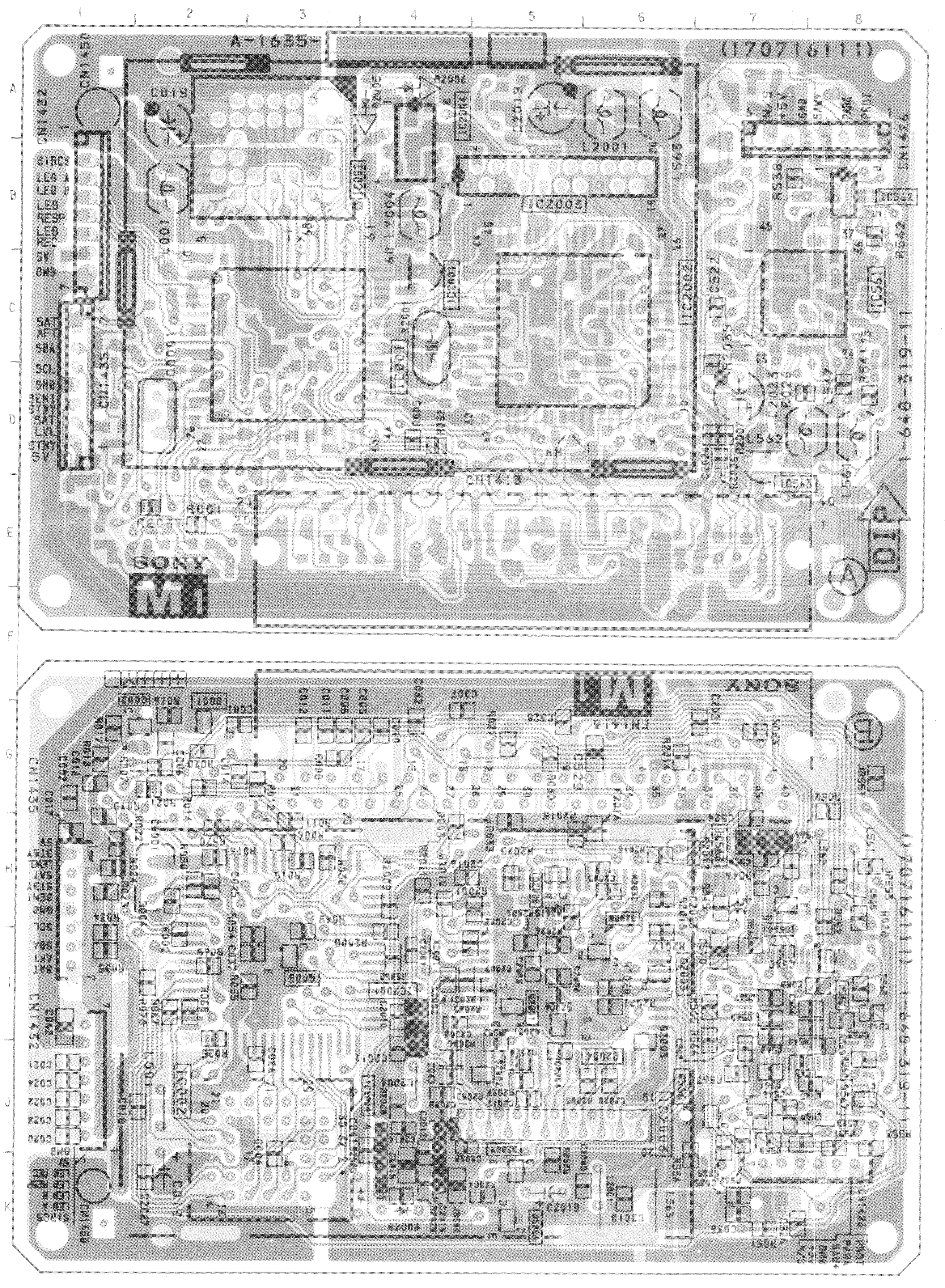
19
20
TO H2 BOARD CN1132
CN1432 7P RED :S-MICRO
GND
STBY 5V
LED REC
LED RESP
LED B
LED A
SIRCS
SCL
SDA
SAT AFT
TO D BOARD CN0526
CN1426 6P YEL :S-MICRO
N/S
+5V
GND
SAW+
PARA
PROT
IC001 SDA30C162 MICRO-CONTR.
CB001 12MHZ
IC561 CXD2018Q GEOMETRIE-CONTR.
DIGITAL PART
ANALOG PART
IC562 LM358DR-E1 BUFF
IC563 MC78L05ACPRP
IC002 TMS27C010 MEMORY
IC2002 SDA5273 TEXT
IC2003 HYB514256BZ-70 TEXT-MEMORY
Q003 2SC2412K NS-SW
Q564 2SA1037K BUFF
Q565 2SC2412K BUFF
Q566 2SC2412K BUFF
Q567 DTC144EK 50/60-SW
Q2001 2SC2412K SW
Q2002 2SC2412K SW
Q2003 2SA1037K SW
Q2005 2SC2412K BUFFER
Q2006 DTC144EK
Q2008 DTC124EK SW
D2001 MA3030H 3.1V REG
D2003 DAP202K
X2001 20.5MHz
L561 10μH :EL0606
L562 10μH :EL0606
<5V>
M1 MICRO CONTROLLER GEOMETRY CONTROLLER JUNGLE, H-DRIVE
B-SS4536<AEP>-M1.
DIGITAL GND (CXD2018Q)
-2 ANALOG GND (CXD2018)
-3 MICR-CONTR. GND (SDA30C162)

– M1 BOARD –


A-1635-
(170716111)
1-648-319-11
SONY
M1
DIP
A
B
CN1450
CN1432
CN1435
CN1413
CN1426
IC2001
IC2002
IC2003
IC2004
IC001
IC002
IC561
IC562
IC563
SIRCS
LED A
LED B
LED
RESP
LED
REC
5V
GND
SAT
AFT
SDA
SCL
GND
SEMI
STBY
SAT
LVL
STBY
5V
N/S
+5V
GND
SAV+
PARA
PROT
L001
L2001
L2004
L561
L562
L563
C019
C2019
X2001
R001
R2037
R538
R542
1
2
3
4
5
6
7
8
A
B
C
D
E
F
G
H
I
J
K

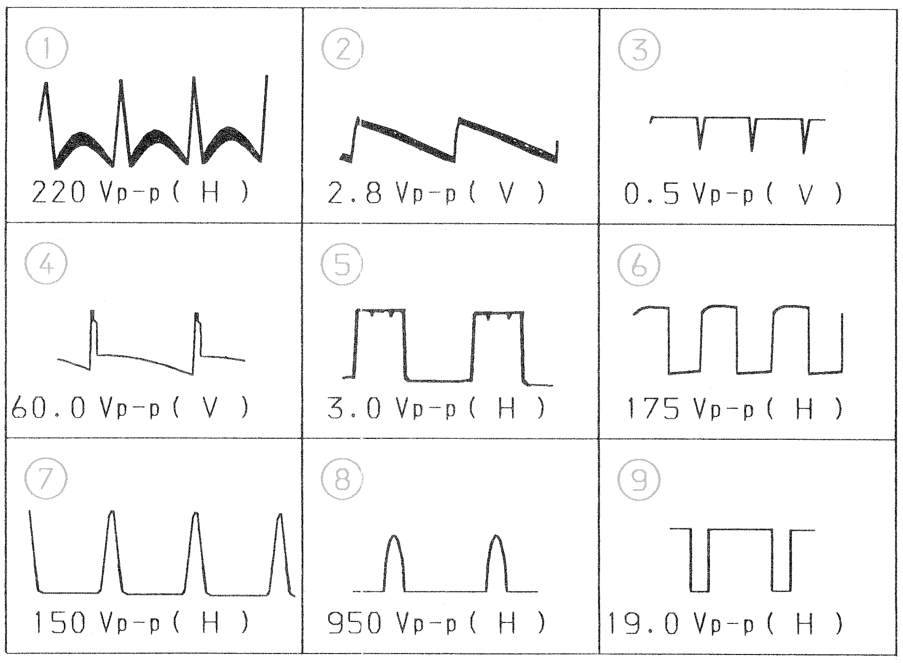
IC	
IC001	C – 3
IC002	B – 3, J – 3
IC561	C – 8
IC562	B – 8
IC563	D – 7, H – 7
IC2001	C – 4, I – 4
IC2002	C – 6
IC2003	B – 5, J – 6
IC2004	A – 4, J – 4

TRANSISTOR	
Q002	G – 2
Q003	I – 3
Q564	H – 7
Q565	I – 8
Q566	J – 7
Q567	J – 8
Q2001	I – 5
Q2002	J – 5
Q2003	I – 6
Q2005	H – 5
Q2006	K – 5
Q2008	I – 6

DIODE	
D001	G – 2
D2001	I – 5
D2002	J – 5
D2003	I – 6

Note :
- ░ : Pattern from the side which enables seeing.
- ▒ : Pattern of the rear side.

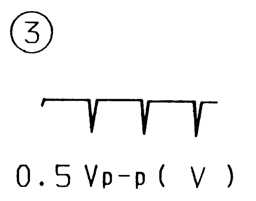
- **WAVEFORMS D BOARD**



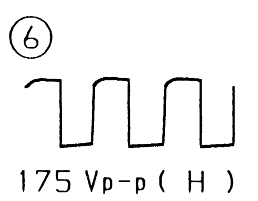
IC	
IC001	C－3
IC002	B－3, J－3
IC561	C－8
IC562	B－8
IC563	D－7, H－7
IC2001	C－4, I－4
IC2002	C－6
IC2003	B－5, J－6
IC2004	A－4, J－4

TRANSISTOR	
Q002	G－2
Q003	I－3
Q564	H－7
Q565	I－8
Q566	J－7
Q567	J－8
Q2001	I－5
Q2002	J－5
Q2003	I－6
Q2005	H－5
Q2006	K－5
Q2008	I－6

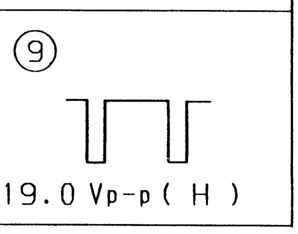
DIODE	
D001	G－2
D2001	I－5
D2002	J－5
D2003	I－6



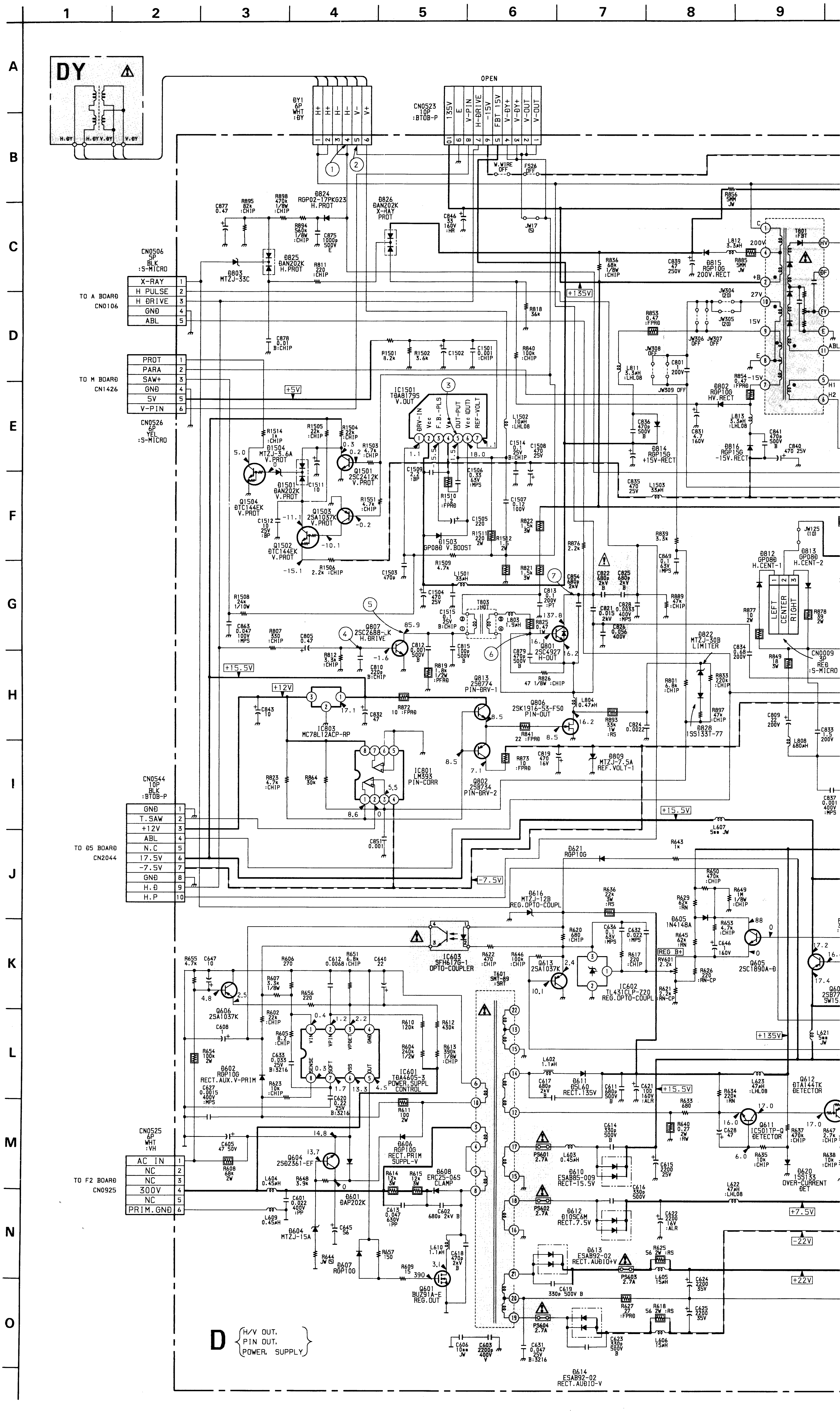
0.5 Vp-p (V)



175 Vp-p (H)



19.0 Vp-p (H)


1
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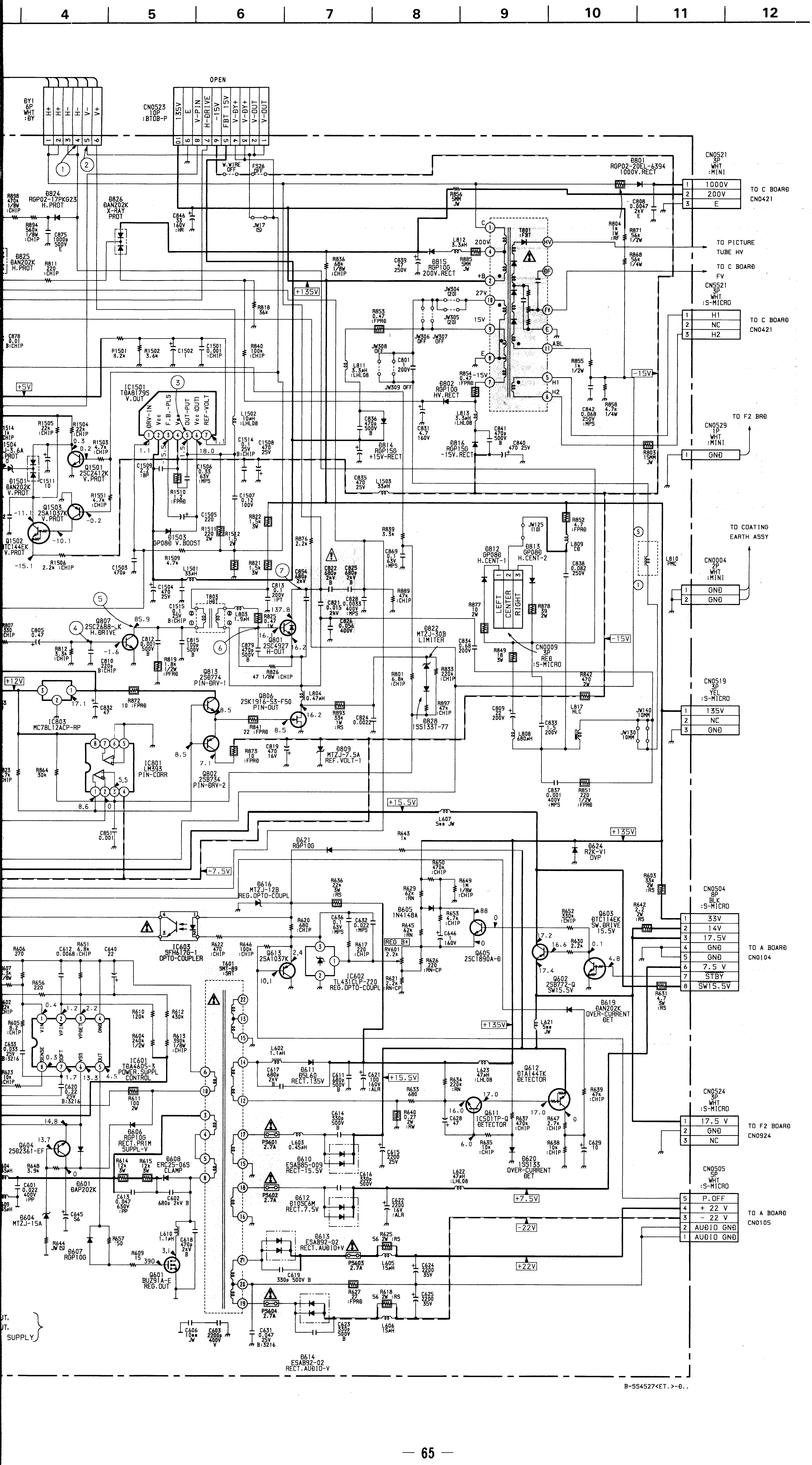
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
DY
H.DY
V.DY
DY1 6P WHT :DY
H+
H+
H-
H-
V-
V+
CN0523 10P :BTOB-P
OPEN
135V
E
V-PIN
H-DRIVE
-15V
FBT 15V
V-DY+
V-DY+
V-OUT
V-OUT
W.WIRE OFF
FS26 OFF
CN0506 5P BLK :S-MICRO
X-RAY
H PULSE
H DRIVE
GND
ABL
TO A BOARD CN0106
PROT
PARA
SAW+
GND
5V
V-PIN
TO M BOARD CN1426
CN0526 6P YEL :S-MICRO
D824 RGP02-17PKG23 H.PROT
D826 DAN202K X-RAY PROT
D825 DAN202K H.PROT
D803 MTZJ-33C
IC1501 TDA8179S V.OUT
DRV-IN
Vcc
F.B.-PLS
OUT-PUT
Vcc (OUT)
REF-VOLT
Q1504 DTC144EK V.PROT
D1504 MTZJ-3.6A V.PROT
D1501 DAN202K V.PROT
Q1501 2SC2412K V.PROT
Q1503 2SA1037K V.PROT
Q1502 DTC144EK V.PROT
D1503 GP08D V.BOOST
D814 RGP15G +15V-RECT
D802 RGP10G HV.RECT
D815 RGP10G 200V.RECT
D816 RGP15G -15V.RECT
T801 FBT
HV
ABL
Q807 2SC2688-K H.DRIVE
T803 HDT
L803 1.9mH
Q801 2SC4927 H-OUT
Q813 2SD774 PIN-DRV-1
Q806 2SK1916-53-F50 PIN-OUT
Q802 2SB734 PIN-DRV-2
IC803 MC78L12ACP-RP
IC801 LM393 PIN-CORR
D809 MTZJ-7.5A REF.VOLT-1
D812 GP08D H.CENT-1
D813 GP08D H.CENT-2
LEFT
CENTER
RIGHT
CN0009 3P RED :S-MICRO
D822 MTZJ-30B LIMITER
D828 1SS133T-77
CN0544 10P BLK :BTOB-P
GND
T.SAW
+12V
ABL
N.C
17.5V
-7.5V
GND
H.D
H.P
TO D5 BOARD CN2044
+5V
+15.5V
+12V
-7.5V
+135V
D621 RGP10G
D616 MTZJ-12B REG.OPTO-COUPL
IC603 SFH617G-1 OPTO-COUPLER
Q613 2SA1037K
IC602 TL431CLP-Z20 REG.OPTO-COUPL
D605 1N4148A
Q605 2SC1890A-D
REG B+
Q606 2SA1037K
D602 RGP10G RECT.AUX.V-PRIM
IC601 TDA4605-3 POWER.SUPPL CONTROL
VIN
VPIN
VPBET
GND
SENSE
SOFT
VSS
OUT
T601 SMT-89 :SRT
D611 D5L60 RECT.135V
Q612 DTA144TK DETECTOR
Q611 IC501TP-Q DETECTOR
D620 1SS133 OVER-CURRENT DET
CN0525 6P WHT :VH
AC IN
NC
NC
300V
NC
PRIM.GND
TO F2 BOARD CN0925
Q604 2SD2361-EF
D601 DAP202K
D606 RGP10G RECT.PRIM SUPPL-V
D608 ERC25-06S CLAMP
D604 MTZJ-15A
D607 RGP10G
Q601 BUZ91A-E REG.OUT
PS601 2.7A
D610 ESAB85-009 RECT-15.5V
PS602 2.7A
D612 D1O5C6M RECT.7.5V
D613 ESAB92-02 RECT.AUDIO+V
PS603 2.7A
PS604 2.7A
D614 ESAB92-02 RECT.AUDIO-V
+15.5V
+7.5V
-22V
+22V
D
H/V OUT.
PIN OUT.
POWER SUPPLY



4
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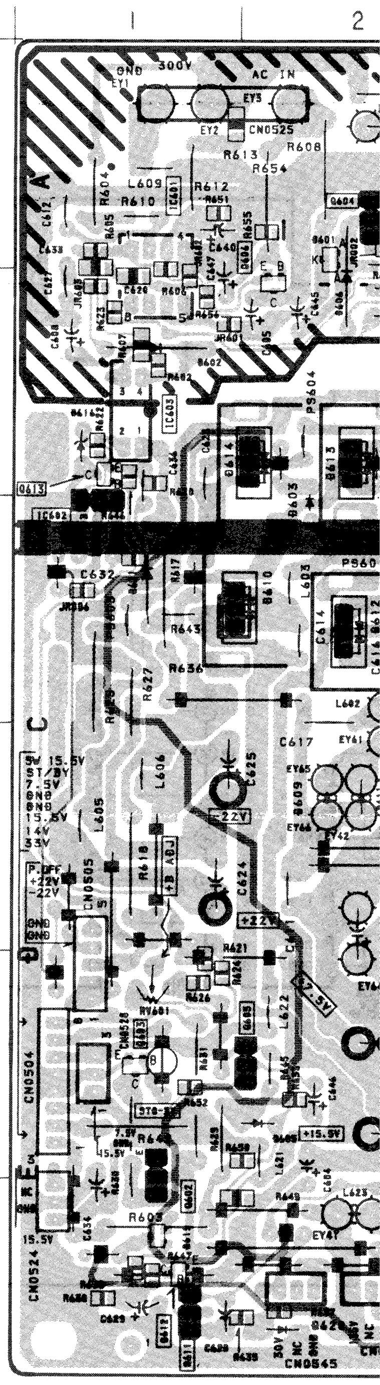
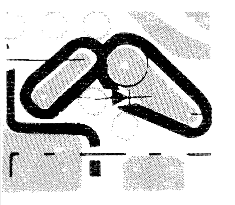
7
8
9
10
11
12
OPEN
DY1 6P WHT :DY
H+
H+
H-
V-
V+
CN0523 10P :BTOB-P
135V
E
V-PIN
H-DRIVE
-15V
FBT 15V
V-DY+
V-DY+
V-OUT
V-OUT
W.WIRE OFF
FS26 OFF
D801 RGP02-20EL-6394 1000V.RECT
CN0521 3P WHT :MINI
1000V
200V
E
TO C BOARD CN0421
TO PICTURE TUBE HV
TO C BOARD FV
CN5521 3P WHT :S-MICRO
H1
NC
H2
TO C BOARD CN0421
T801 :FBT
HV
DF
FV
ABL
H1
H2
D824 RGP02-17PKG23 H.PROT
D826 DAN202K X-RAY PROT
D825 DAN202K H.PROT
+135V
IC1501 TDA8179S V.OUT
+5V
Q1501 2SC2412K V.PROT
Q1503 2SA1037K V.PROT
Q1502 DTC144EK V.PROT
D1501 DAN202K V.PROT
D1503 GP08D V.BOOST
TO F2 BRD
CN0529 1P WHT :MINI
GND
TO COATING EARTH ASSY
CN0004 2P WHT :MINI
GND
GND
D812 GP08D H.CENT-1
D813 GP08D H.CENT-2
LEFT
CENTER
RIGHT
CN0009 3P RED :S-MICRO
Q807 2SC2688-LK H.DRIVE
T803 :HDT
Q801 2SC4927 H-OUT
D822 MTZJ-30B LIMITER
-15V
+12V
IC803 MC78L12ACP-RP
IC801 LM393 PIN-CORR
Q813 2SD774 PIN-DRV-1
Q806 2SK1916-53-F50 PIN-OUT
Q802 2SB734 PIN-DRV-2
D828 1SS133T-77
D809 MTZJ-7.5A REF.VOLT-1
CN0519 3P YEL :S-MICRO
135V
NC
GND
+15.5V
+135V
D621 RGP10G
D624 RZK-V1 OVP
-7.5V
D616 MTZJ-12B REG.OPTO-COUPL
D605 1N4148A
Q605 2SC1890A-D
REG B+
IC603 SFH6176-1 OPTO-COUPLER
T601 SMT-89 :SRT
Q613 2SA1037K
IC602 TL431CLP-Z20 REG.OPTO-COUPL
Q603 DTC114EK SW.DRIVE 15.5V
Q602 2SB772-Q SW15.5V
D619 DAN202K OVER-CURRENT DET
CN0504 8P BLK :S-MICRO
33V
14V
17.5V
GND
GND
7.5 V
STBY
SW15.5V
TO A BOARD CN0104
IC601 TDA4605-3 POWER.SUPPL CONTROL
D611 D5L60 RECT.135V
+15.5V
Q612 DTA144TK DETECTOR
Q611 2SC501TP-Q DETECTOR
D620 1SS133 OVER-CURRENT DET
CN0524 3P WHT :S-MICRO
17.5 V
GND
NC
TO F2 BOARD CN0924
Q604 2SD2361-EF
D606 RGP10G RECT.PRIM SUPPL-V
D608 ERC25-06S CLAMP
D601 DAP202K
D604 MTZJ-15A
D607 RGP10G
Q601 BUZ91A-E REG.OUT
PS601 2.7A
D610 ESAB85-009 RECT-15.5V
PS602 2.7A
D612 D10SC6M RECT.7.5V
+7.5V
-22V
D613 ESAB92-02 RECT.AUDIO+V
PS603 2.7A
+22V
PS604 2.7A
D614 ESAB92-02 RECT.AUDIO-V
CN0505 5P WHT :S-MICRO
P.OFF
+ 22 V
- 22 V
AUDIO GND
AUDIO GND
TO A BOARD CN0105
SUPPLY
B-SS4527<ET.>-D..

- D BOARD -



1
2
A
B
C
D
E
F
AC IN
CN0525
CN0505
CN0504
CN0524
CN0545



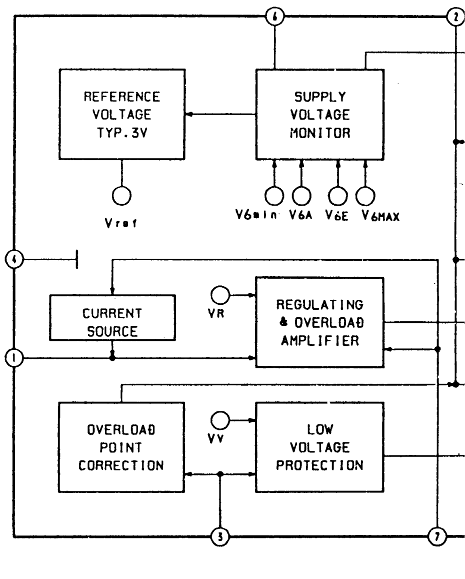
NOTE:

The circui

600 Vp-p.

inspection

• D BOARD IC601 TDA4605-3

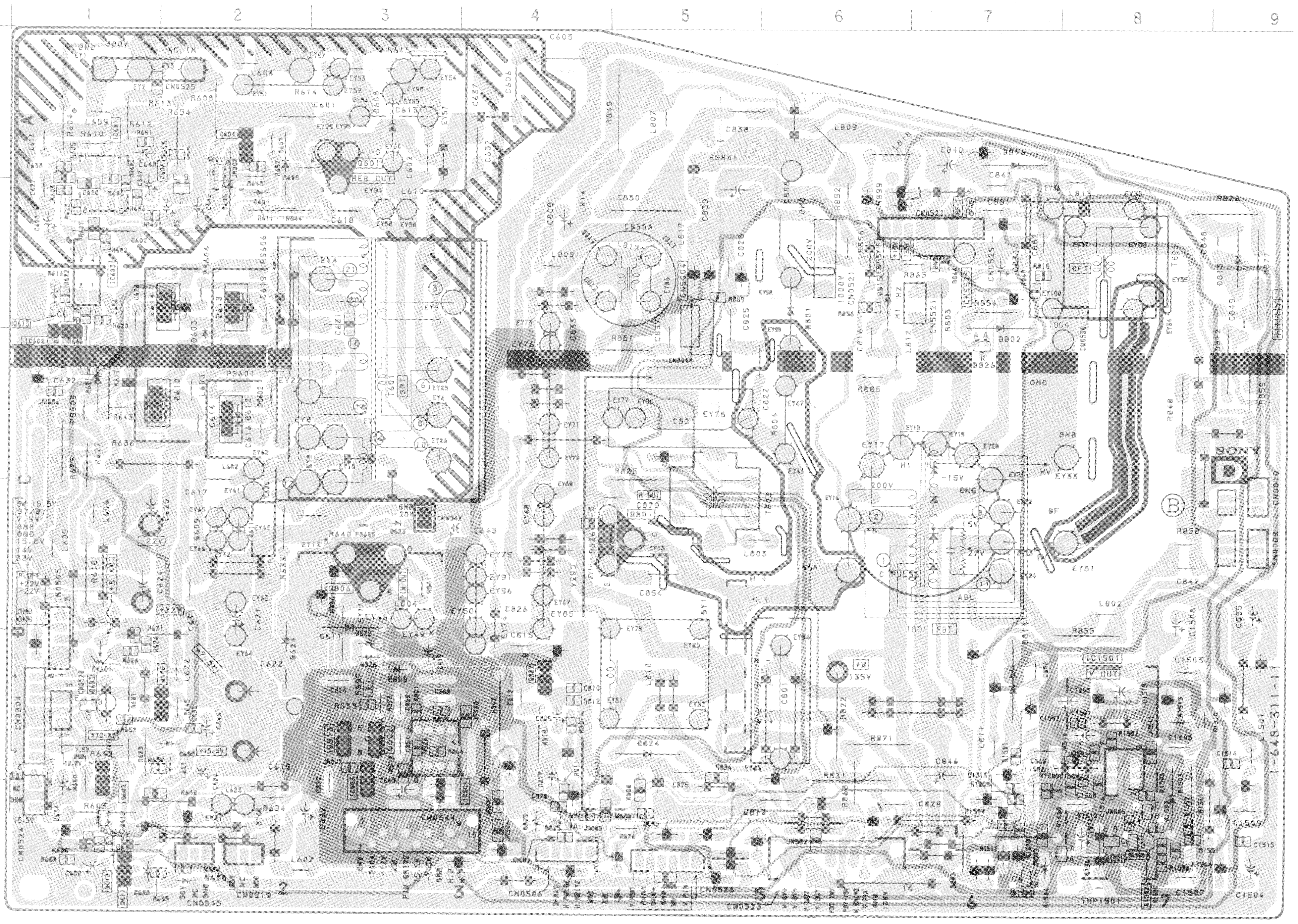


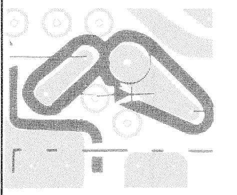
REFERENCE VOLTAGE TYP.3V
SUPPLY VOLTAGE MONITOR
Vref
V6min V6A V6E V6MAX
CURRENT SOURCE
VR
REGULATING & OVERLOAD AMPLIFIER
OVERLOAD POINT CORRECTION
VV
LOW VOLTAGE PROTECTION

Note :

- ░ : Pattern from the side which enables seeing.
- ▒ : Pattern of the rear side.

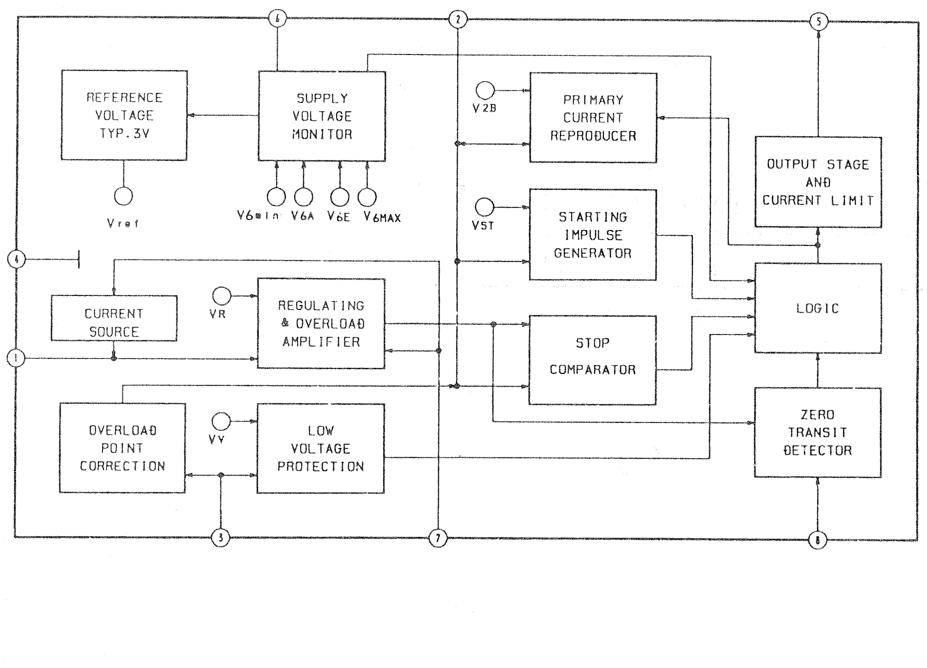
– D BOARD –


1
2
3
4
5
6
7
8
9
A
B
C
D
E
F
AC IN
SONY
D
1-648-311-11
CN0525
CN0544
CN0545
CN0506
CN0526
CN0523
CN0524
CN0504
CN0505
IC1501
Y OUT
T801 FBT
PULSE
ABL
THP1501
+22V
+15.5V
135V
200V
HV
RED OUT
PIN OUT
GND



NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

• D BOARD IC601 TDA4605-3

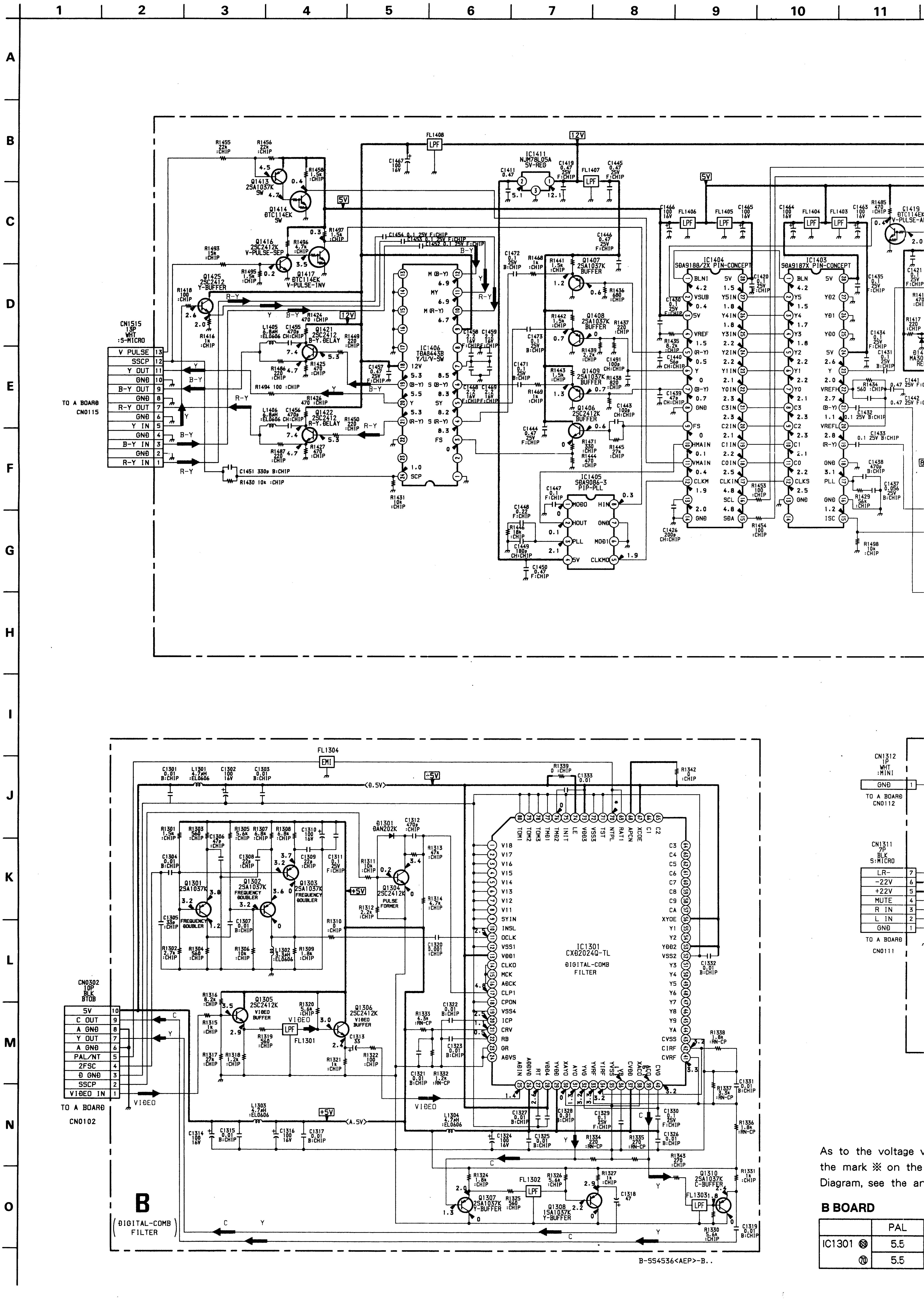

REFERENCE VOLTAGE TYP. 3V
SUPPLY VOLTAGE MONITOR
V2B
PRIMARY CURRENT REPRODUCER
OUTPUT STAGE AND CURRENT LIMIT
Vref
V6min V6A V6E V6MAX
VST
STARTING IMPULSE GENERATOR
CURRENT SOURCE
VR
REGULATING & OVERLOAD AMPLIFIER
LOGIC
STOP COMPARATOR
OVERLOAD POINT CORRECTION
VV
LOW VOLTAGE PROTECTION
ZERO TRANSIT DETECTOR
1
2
3
4
5
6
7
8
9

IC	
IC601	A – 1
IC602	C – 1
IC603	B – 1
IC801	E – 3
IC803	F – 3
IC1501	E – 8

TRANSISTOR	
Q601	A – 3
Q602	F – 1
Q603	E – 1
Q604	A – 2
Q605	E – 2
Q606	B – 2
Q611	F – 1
Q612	F – 1
Q613	B – 1
Q801	D – 5
Q802	E – 3
Q806	D – 3
Q807	E – 4
Q813	E – 3
Q1501	F – 8
Q1502	F – 8
Q1503	F – 8
Q1504	F – 7

DIODE	
D601	A – 2
D602	B – 1
D604	B – 2
D605	E – 2
D606	B – 2
D607	A – 2
D608	A – 3
D610	C – 2
D611	D – 2
D612	C – 2
D613	B – 2
D614	B – 2
D616	B – 1
D619	F – 1
D620	F – 2
D621	C – 1
D624	E – 2
D801	B – 6
D802	B – 7
D803	F – 4
D809	E – 3
D811	D – 3
D812	C – 9
D813	B – 9
D814	E – 7
D815	B – 6
D816	A – 7
D822	E – 3
D824	E – 5
D825	F – 4
D826	C – 7
D828	E – 3
D1501	F – 8
D1503	F – 8
D1504	F – 7

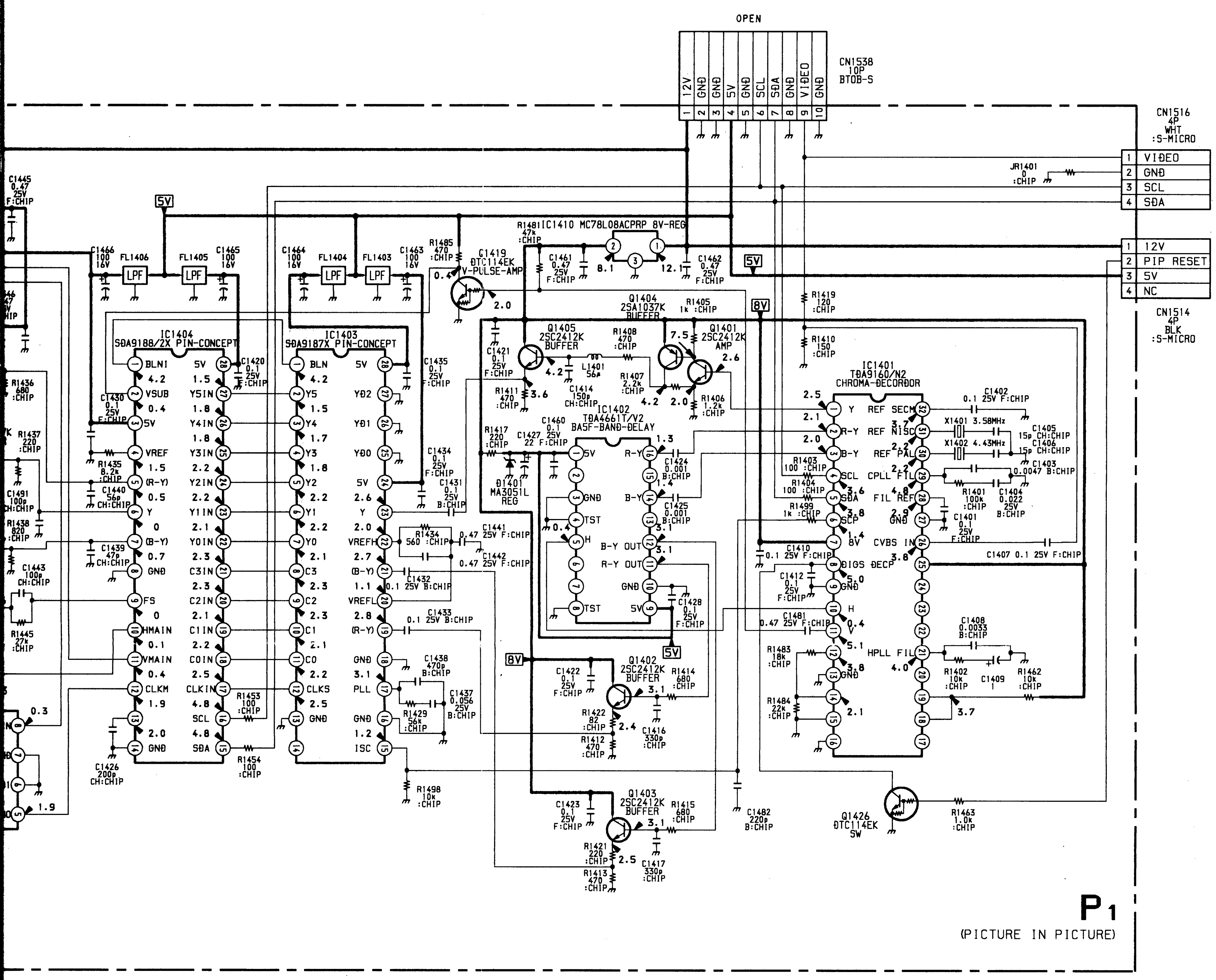
VARIABLE RESISTOR	
RV601	E – 1


1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
CN1515 13P WHT :S-MICRO
V PULSE 13
SSCP 12
Y OUT 11
GND 10
B-Y OUT 9
GND 8
R-Y OUT 7
GND 6
Y IN 5
GND 4
B-Y IN 3
GND 2
R-Y IN 1
TO A BOARD CN0115
Q1413 2SA1037K SW
Q1414 DTC114EK SW
Q1416 2SC2412K V-PULSE-SEP
Q1417 DTC114EK V-PULSE-INV
Q1425 2SC2412 Y-BUFFER
Q1421 2SC2412 B-Y.DELAY
Q1422 2SC2412 R-Y.DELAY
IC1406 TDA8443B Y/U/V-SW
FL1408 LPF
12V
5V
IC1411 NJM78L05A 5V-REG
FL1407 LPF
Q1407 2SA1037K BUFFER
Q1408 2SA1037K BUFFER
Q1409 2SA1037K BUFFER
Q1406 2SC2412K BUFFER
IC1405 SDA9086-3 PIP-PLL
IC1404 SDA9188/2X PIN-CONCEPT
IC1403 SDA9187X PIN-CONCEPT
FL1406 LPF
FL1405 LPF
FL1404 LPF
FL1403 LPF
Q1419 DTC114EK V-PULSE-AMP
CN0302 10P BLK BTOB
5V 10
C OUT 9
A GND 8
Y OUT 7
A GND 6
PAL/NT 5
2FSC 4
D GND 3
SSCP 2
VIDEO IN 1
TO A BOARD CN0102
FL1304 EMI
Q1301 2SA1037K FREQUENCY DOUBLER
Q1302 2SA1037K FREQUENCY DOUBLER
Q1303 2SA1037K FREQUENCY DOUBLER
D1301 DAN202K
Q1304 2SC2412K PULSE FORMER
Q1305 2SC2412K VIDEO BUFFER
Q1306 2SC2412K VIDEO BUFFER
FL1301 LPF
IC1301 CXD2024Q-TL DIGITAL-COMB FILTER
Q1307 2SA1037K Y-BUFFER
Q1308 1SA1037K Y-BUFFER
Q1310 2SA1037K C-BUFFER
FL1302 LPF
FL1303 LPF
CN1312 1P WHT :MINI
GND 1
TO A BOARD CN0112
CN1311 7P BLK S:MICRO
LR- 7
-22V 6
+22V 5
MUTE 4
R IN 3
L IN 2
GND 1
TO A BOARD CN0111
B
(DIGITAL-COMB FILTER)
B-SS4536<AEP>-B..

As to the voltage v
the mark ※ on the
Diagram, see the ar

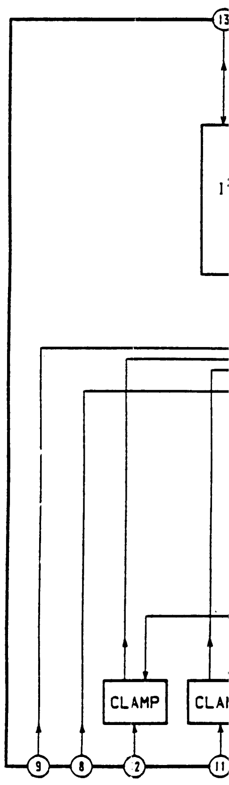
B BOARD

	PAL
IC1301 (69)	5.5
(70)	5.5

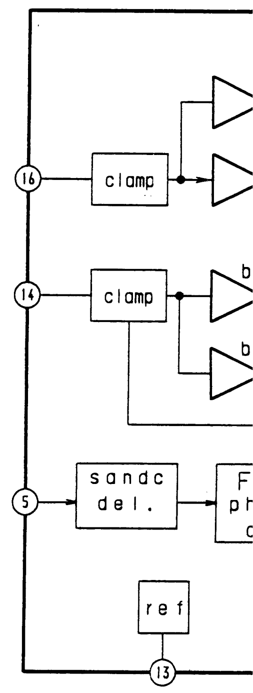

OPEN
CN1538 10P BTOB-S
12V GND GND 5V GND SCL SDA GND VIDEO GND
CN1516 4P WHT :S-MICRO
VIDEO GND SCL SDA
TO A BOARD CN0116
12V PIP RESET 5V NC
TO A BOARD CN0114
CN1514 4P BLK :S-MICRO
IC1410 MC78L08ACPRP 8V-REG
Q1419 DTC114EK V-PULSE-AMP
IC1404 SDA9188/2X PIN-CONCEPT
IC1403 SDA9187X PIN-CONCEPT
IC1402 TDA4661T/V2 BASE-BAND-DELAY
IC1401 TDA9160/N2 CHROMA-DECORDOR
Q1404 2SA1037K BUFFER
Q1405 2SC2412K BUFFER
Q1401 2SC2412K AMP
Q1402 2SC2412K BUFFER
Q1403 2SC2412K BUFFER
Q1426 DTC114EK SW
D1401 MA3051L REG
X1401 3.58MHz
X1402 4.43MHz
P1
(PICTURE IN PICTURE)

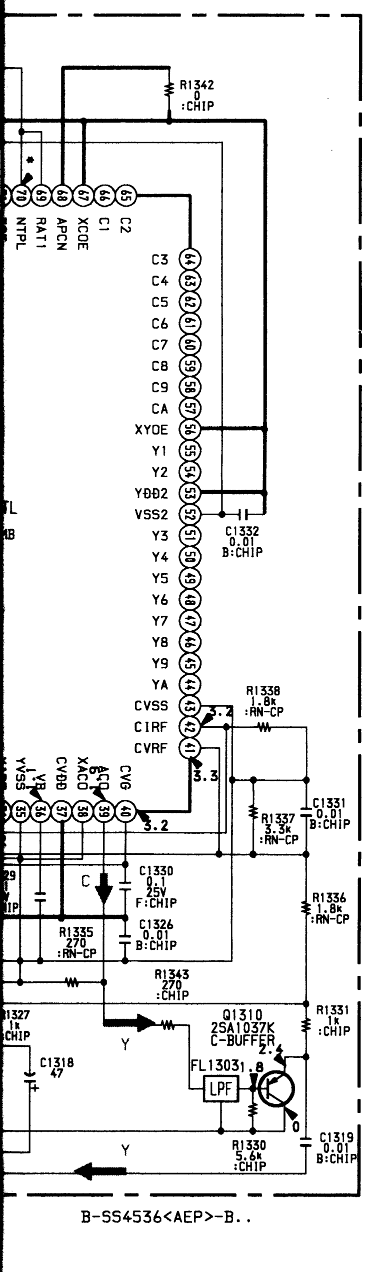
B-SS4536<AEP>-P1.

• P1 BOARD IC14

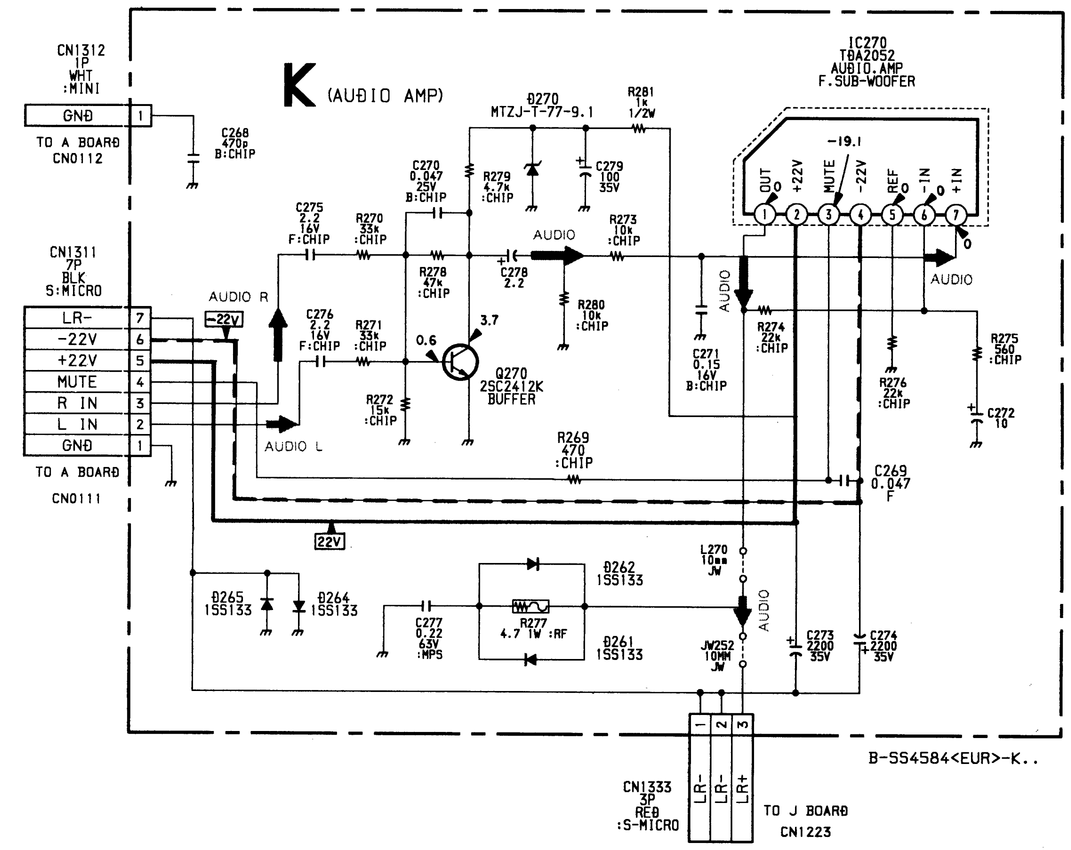


• P1 BOARD IC14


clamp
clamp
sandc del.
ref


Q1310 2SA1037K C-BUFFER
FL1303 LPF

B-SS4536<AEP>-B..

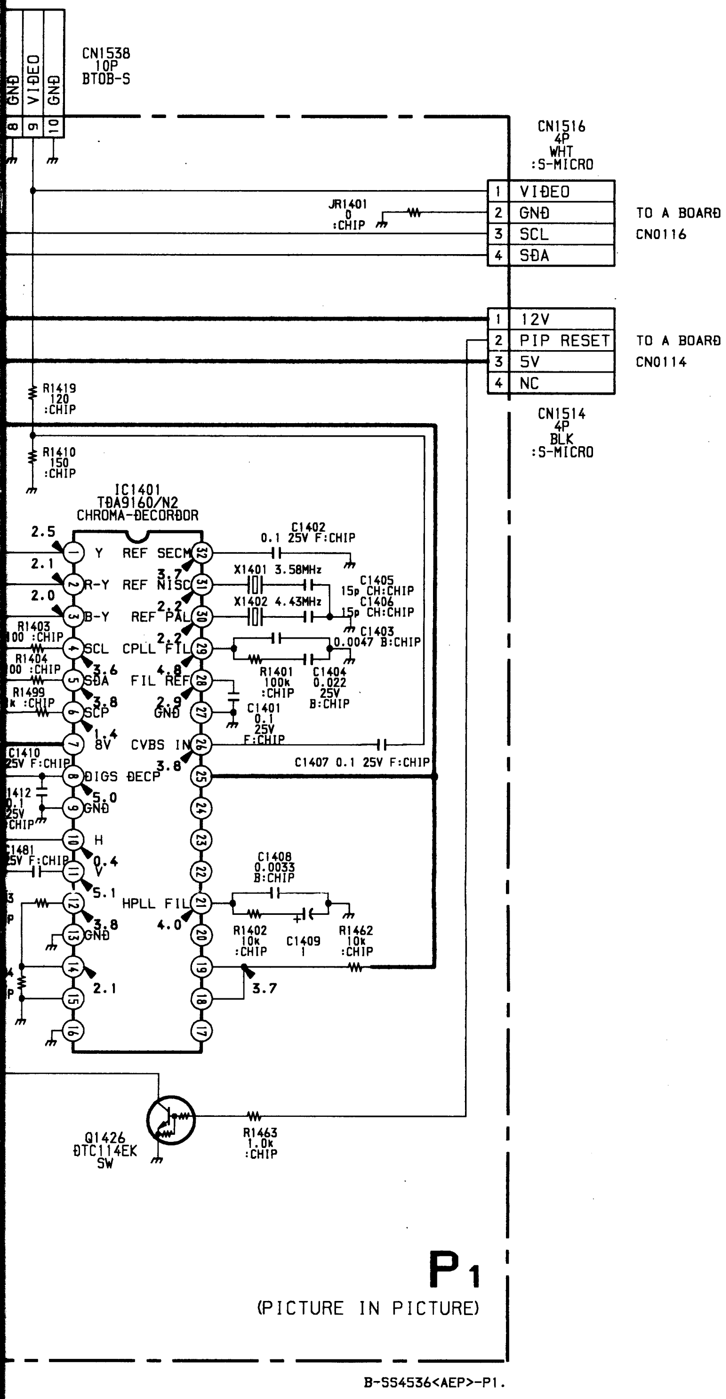

CN1312 1P WHT :MINI
TO A BOARD CN0112
K (AUDIO AMP)
IC270 TDA2052 AUDIO AMP F.SUB-WOOFER
OUT +22V MUTE -22V REF -IN +IN
CN1311 7P BLK S:MICRO
LR- -22V +22V MUTE R IN L IN GND
TO A BOARD CN0111
Q270 2SC2412K BUFFER
D270 MTZJ-T-77-9.1
AUDIO R
AUDIO L
AUDIO
CN1333 3P RED :S-MICRO
LR- LR- LR+
TO J BOARD CN1223

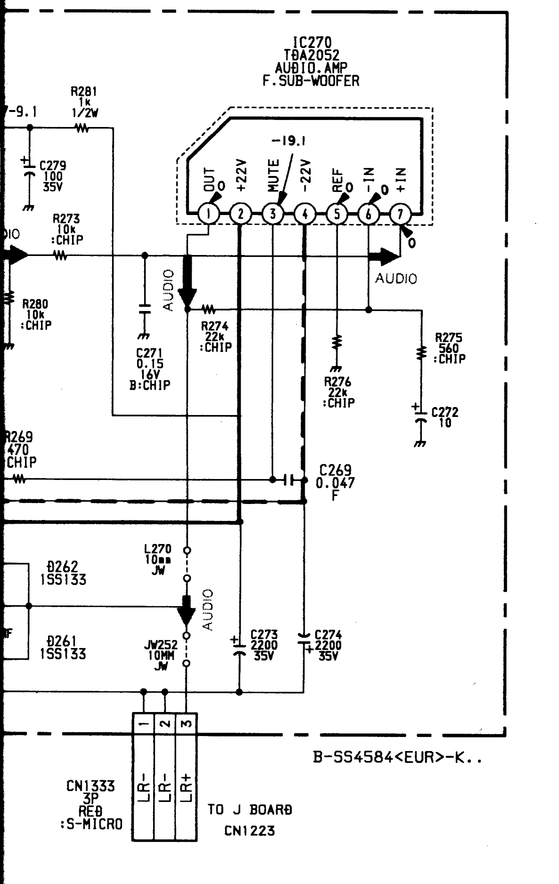
B-SS4584<EUR>-K..

As to the voltage volue shown by the mark ※ on the Schematic Diagram, see the another list.

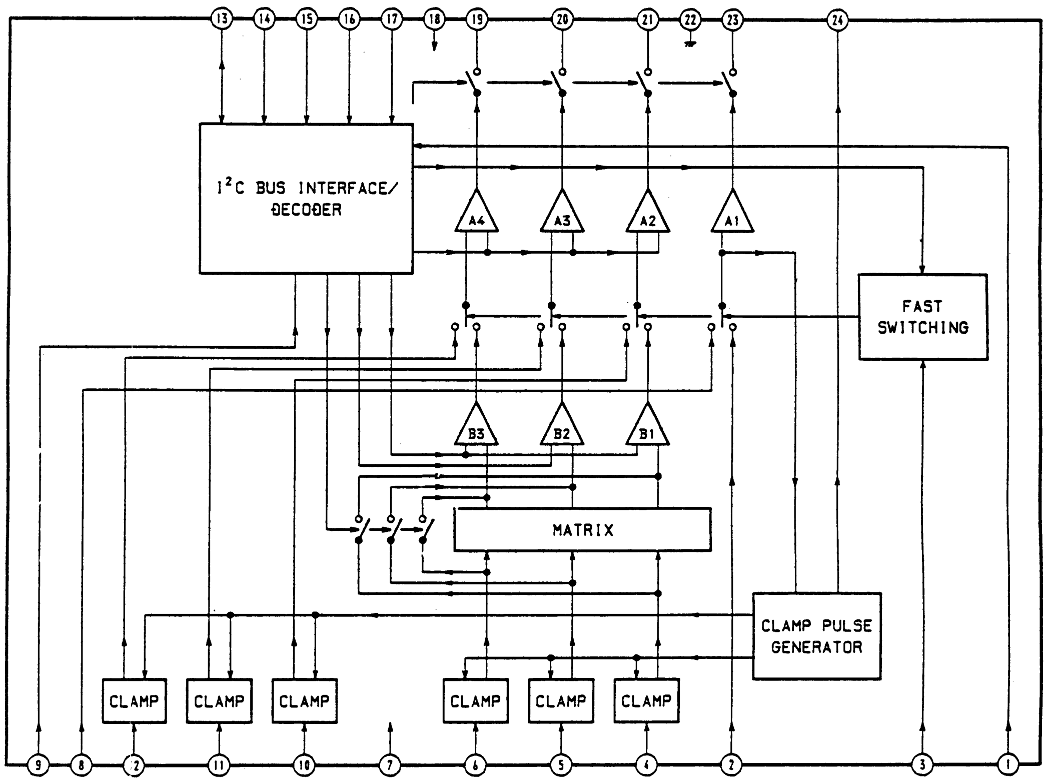
B BOARD

		PAL	SECAM	NTSC3.58	NTSC4.43
IC1301	(69)	5.5	5.5	0.1	0.1
	(70)	5.5	5.5	0.1	0.1

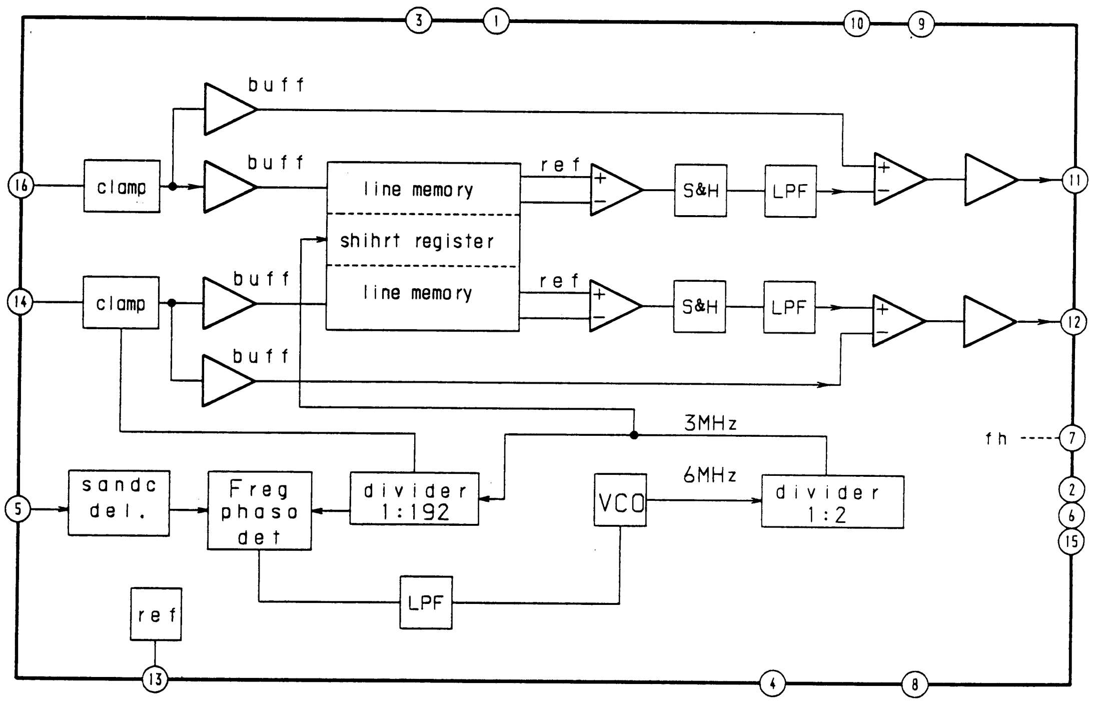

CN1538
10P
BTOB-S
GND
VIDEO
GND
CN1516
4P
WHT
:S-MICRO
1 VIDEO
2 GND
3 SCL
4 SDA
TO A BOARD
CN0116
JR1401
0
:CHIP
1 12V
2 PIP RESET
3 5V
4 NC
TO A BOARD
CN0114
CN1514
4P
BLK
:S-MICRO
R1419
120
:CHIP
R1410
150
:CHIP
IC1401
TDA9160/N2
CHROMA-DECORDOR
Y REF SECM
R-Y REF NISC
B-Y REF PAL
SCL CPLL FIL
SDA FIL REF
SCP GND
8V CVBS IN
DIGS DECP
GND
H
V
HPLL FIL
GND
C1402
0.1 25V F:CHIP
X1401 3.58MHz
X1402 4.43MHz
C1405
15p CH:CHIP
C1406
15p CH:CHIP
C1403
0.0047 B:CHIP
R1401
100k
:CHIP
C1404
0.022
25V
B:CHIP
C1401
0.1
25V
F:CHIP
C1407 0.1 25V F:CHIP
C1408
0.0033
B:CHIP
R1402
10k
:CHIP
C1409
1
R1462
10k
:CHIP
R1403
R1404
R1499
C1410
C1412
C1481
Q1426
DTC114EK
SW
R1463
1.0k
:CHIP
P1
(PICTURE IN PICTURE)
B-SS4536<AEP>-P1.

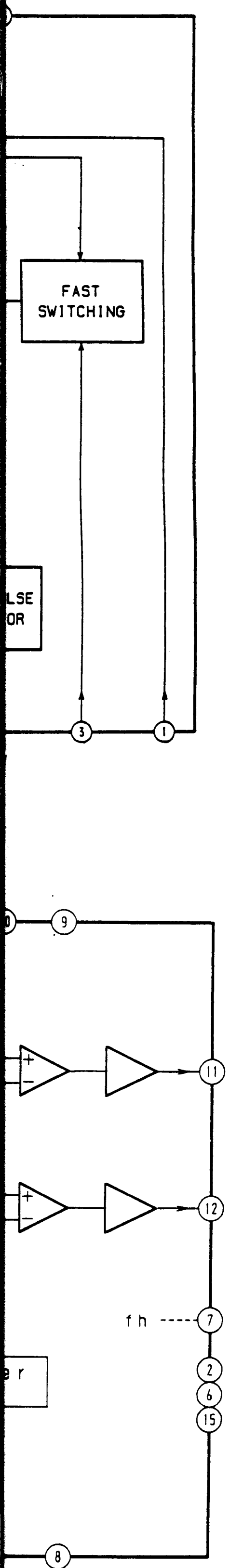

IC270
TDA2052
AUDIO.AMP
F.SUB-WOOFER
R281
1k
1/2W
C279
100
35V
R273
10k
:CHIP
R280
10k
:CHIP
-19.1
OUT
+22V
MUTE
-22V
REF
-IN
+IN
AUDIO
R274
22k
:CHIP
C271
0.15
16V
B:CHIP
R276
22k
:CHIP
R275
560
:CHIP
C272
10
R269
470
:CHIP
C269
0.047
F
L270
10µH
JW
D262
1SS133
D261
1SS133
JW252
10MM
JW
C273
2200
35V
C274
2200
35V
CN1333
3P
RED
:S-MICRO
LR-
LR-
LR+
TO J BOARD
CN1223
B-SS4584<EUR>-K..

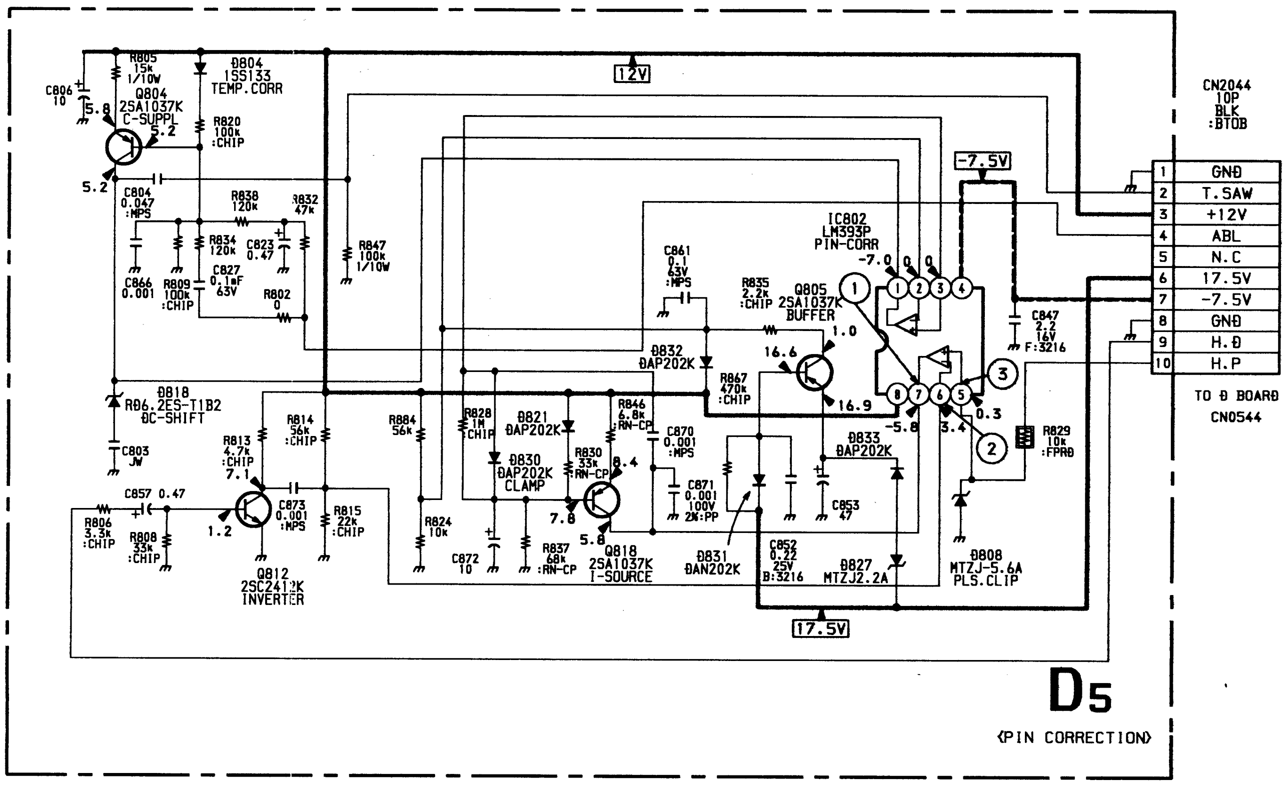
• P1 BOARD IC1406 TDA8443B


I²C BUS INTERFACE/
DECODER
A4
A3
A2
A1
FAST
SWITCHING
B3
B2
B1
MATRIX
CLAMP PULSE
GENERATOR
CLAMP
CLAMP
CLAMP
CLAMP
CLAMP
CLAMP

• P1 BOARD IC1402 TDA4661T/V2

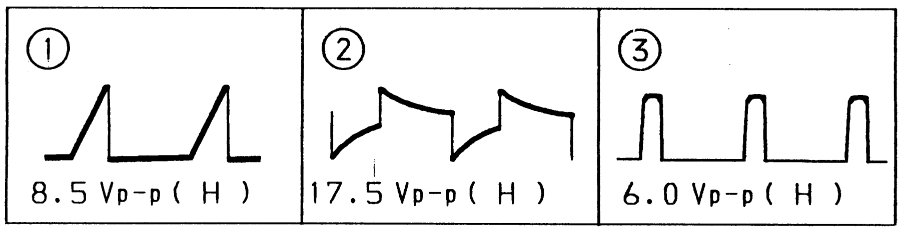

buff
clamp
buff
line memory
ref
S&H
LPF
shihrt register
buff
clamp
line memory
ref
S&H
LPF
buff
3MHz
fh
sandc
del.
Freq
phaso
det
divider
1:192
VCO
6MHz
divider
1:2
LPF
ref


FAST
SWITCHING
LSE
OR
3
1
9
11
12
fh
7
2
6
15
8
r


12V
R805 15k 1/10W
D804 1SS133 TEMP.CORR
C806 10
Q804 2SA1037K C-SUPPL
5.8
5.2
R820 100k :CHIP
C804 0.047 :MPS
R838 120k
R832 47k
R834 120k
C823 0.47
C827 0.1μF 63V
C866 0.001
R809 100k :CHIP
R802 0
R847 100k 1/10W
D818 RD6.2ES-T1B2 DC-SHIFT
C803 JW
R813 4.7k :CHIP
R814 56k :CHIP
R884 56k
C857 0.47
R806 3.3k :CHIP
R808 33k :CHIP
1.2
7.1
C873 0.001 :MPS
R815 22k :CHIP
Q812 2SC2412K INVERTER
R824 10k
R828 1M CHIP
D821 DAP202K
D830 DAP202K CLAMP
C872 10
R837 68k :RN-CP
R830 33k RN-CP
7.8
8.4
5.8
Q818 2SA1037K I-SOURCE
R846 6.8k RN-CP
C870 0.001 :MPS
C871 0.001 100V 2%:PP
D831 DAN202K
C861 0.1 63V :MPS
D832 DAP202K
R867 470k :CHIP
R835 2.2k :CHIP
Q805 2SA1037K BUFFER
16.6
1.0
16.9
IC802 LM393P PIN-CORR
-7.0
0 0
1 2 3 4
8 7 6 5
-5.8
3.4
0.3
D833 DAP202K
C852 0.22 25V B:3216
D827 MTZJ2.2A
C853 47
-7.5V
C847 2.2 16V F:3216
R829 10k :FPRD
D808 MTZJ-5.6A PLS.CLIP
17.5V
CN2044 10P BLK :BTOB
1 GND
2 T.SAW
3 +12V
4 ABL
5 N.C
6 17.5V
7 -7.5V
8 GND
9 H.D
10 H.P
TO D BOARD CN0544
D5
(PIN CORRECTION)

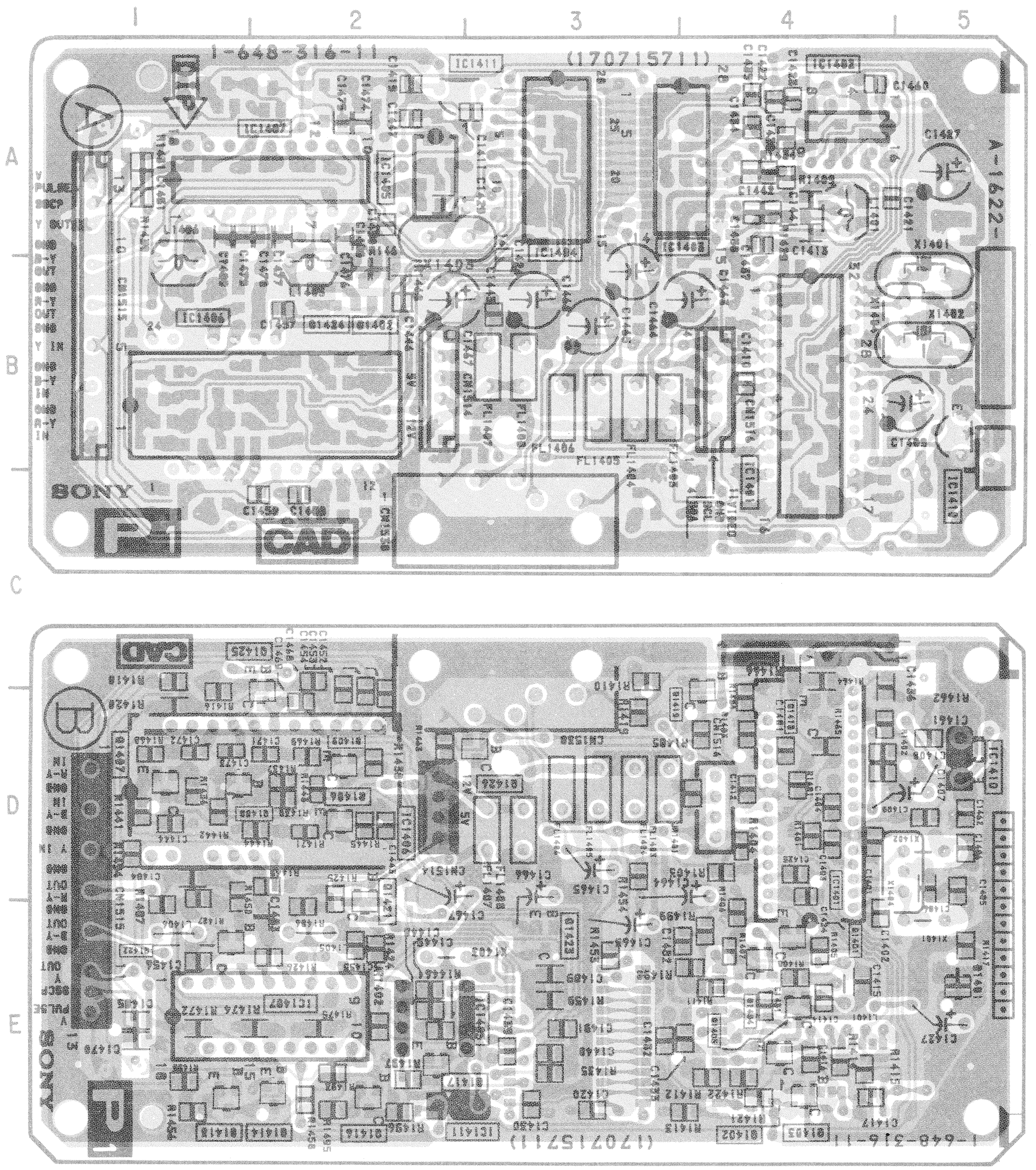
B-SS4584<EUR>-D5.

• WAVEFORMS D5 BOARD



P1 [PICTURE IN PICTURE] B [DIGITAL - COMB FILTER] D5 [PIN CORRECTION] K [AUDIO AMP]

– P1 BOARD –


1
2
3
4
5
A
B
C
D
E
1-648-316-11
(170715711)
A-1622-
SONY
P1
CAD
DIP

IC	
IC1401	B – 4, D – 4
IC1402	A – 4
IC1403	A – 3
IC1404	A – 3
IC1405	A – 2, E – 2
IC1406	B – 1, D – 2
IC1410	B – 5, D – 5
IC1411	A – 2, E – 2

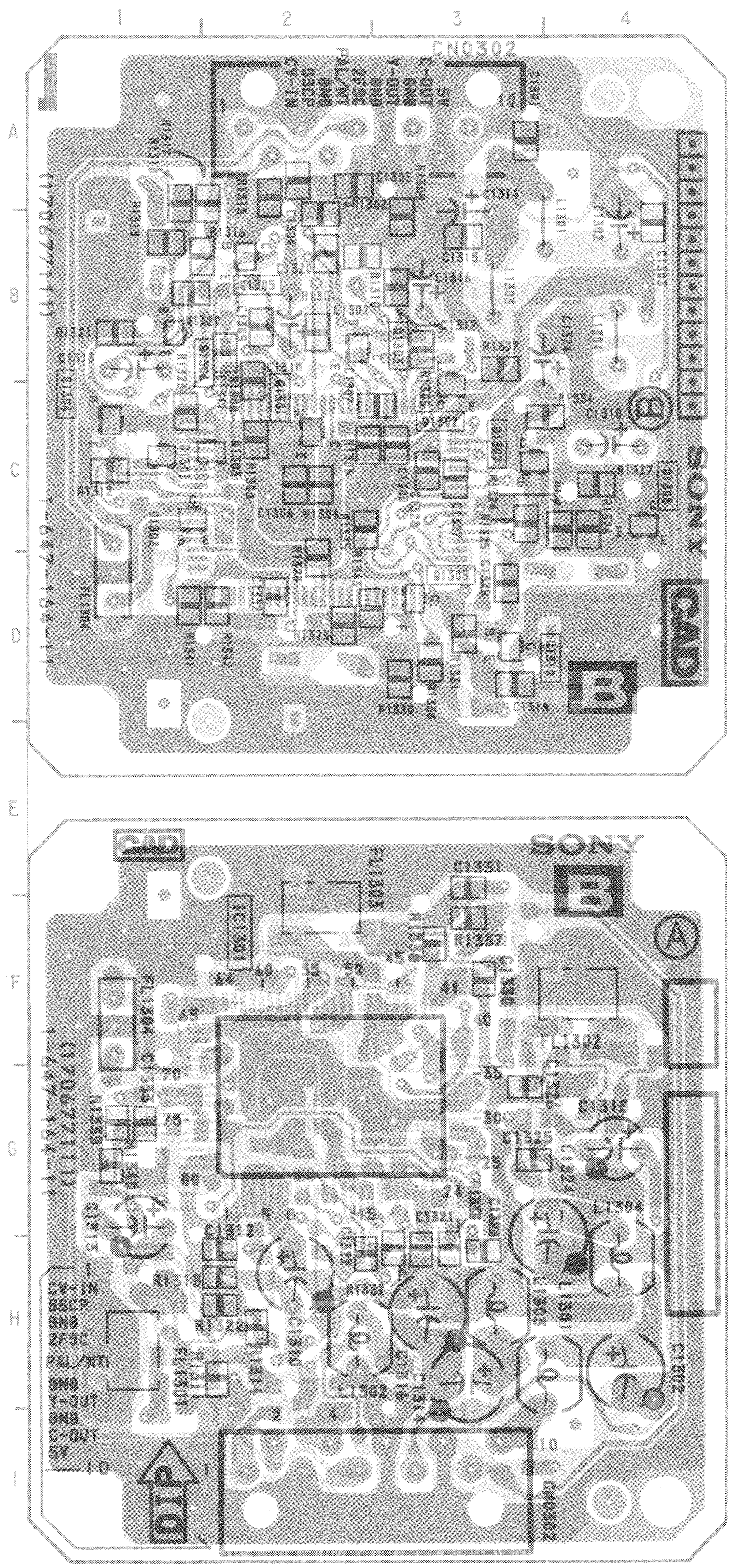
TRANSISTOR	
Q1401	E – 4
Q1402	E – 4
Q1403	E – 4
Q1404	E – 4
Q1405	E – 4
Q1406	D – 2
Q1407	D – 1
Q1408	D – 1
Q1409	D – 2
Q1413	E – 1
Q1414	E – 2
Q1416	E – 2
Q1417	E – 2
Q1419	D – 4
Q1421	E – 2
Q1422	E – 1
Q1425	D – 2
Q1426	D – 3

DIODE	
D1401	E – 5

Note :

- ░ : Pattern from the side which enables seeing.
- ▒ : Pattern of the rear side.

– B BOARD –


1
2
3
4
A
B
C
D
E
F
G
H
I
CN0302
1-647-164-11
(170677111)
SONY
B
CAD
DIP
IC1301
CV-IN
SSCP
GND
2FSC
PAL/NTI
GND
Y-OUT
GND
C-OUT
5V

IC	
IC1301	G – 2

TRANSISTOR	
Q1301	C – 2
Q1302	B – 3
Q1303	B – 2
Q1304	C – 1
Q1305	B – 2
Q1306	B – 1
Q1307	C – 3
Q1308	C – 4
Q1310	D – 3

DIODE	
D1301	C – 1

Note :

- ░ : Pattern from the side which ena
- ▒ : Pattern of the rear side.

K [AUDIO AMP]

5
A-1622-
IC1410
IC1413

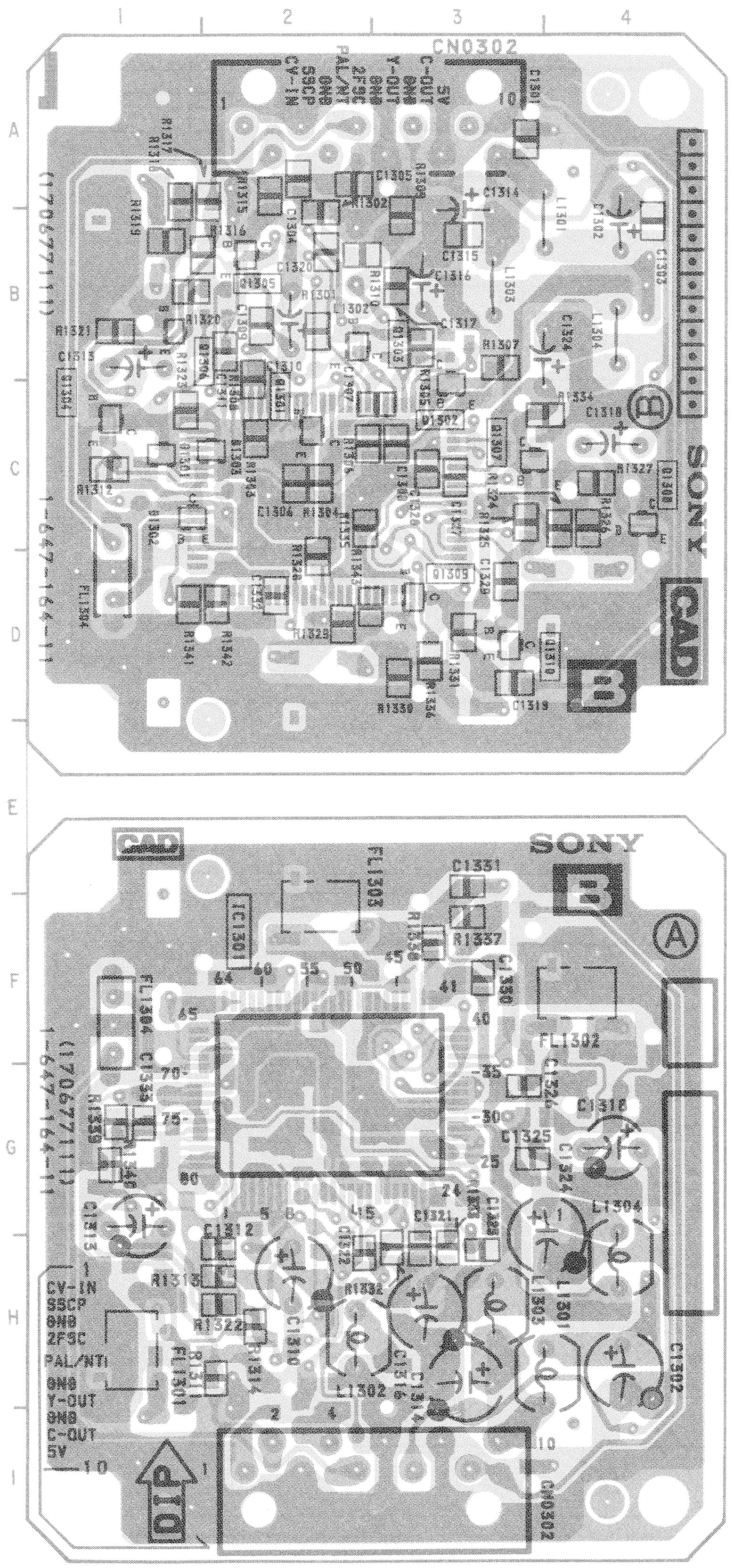
IC	
IC1401	B – 4, D – 4
IC1402	A – 4
IC1403	A – 3
IC1404	A – 3
IC1405	A – 2, E – 2
IC1406	B – 1, D – 2
IC1410	B – 5, D – 5
IC1411	A – 2, E – 2

TRANSISTOR	
Q1401	E – 4
Q1402	E – 4
Q1403	E – 4
Q1404	E – 4
Q1405	E – 4
Q1406	D – 2
Q1407	D – 1
Q1408	D – 1
Q1409	D – 2
Q1413	E – 1
Q1414	E – 2
Q1416	E – 2
Q1417	E – 2
Q1419	D – 4
Q1421	E – 2
Q1422	E – 1
Q1425	D – 2
Q1426	D – 3

DIODE	
D1401	E – 5

ables seeing.

– B BOARD –


1
2
3
4
A
B
C
D
E
F
G
H
I
CN0302
SONY
CAD
B
(170677111)
1-647-164-11
IC1301
FL1301
FL1302
FL1303
FL1304
L1301
L1302
L1303
L1304
C1302
C1318
C1324
C1325
C1331
R1337
A
DIP
CV-IN
SSCP
GND
2FSC
PAL/NTI
GND
Y-OUT
GND
C-OUT
5V

IC	
IC1301	G – 2

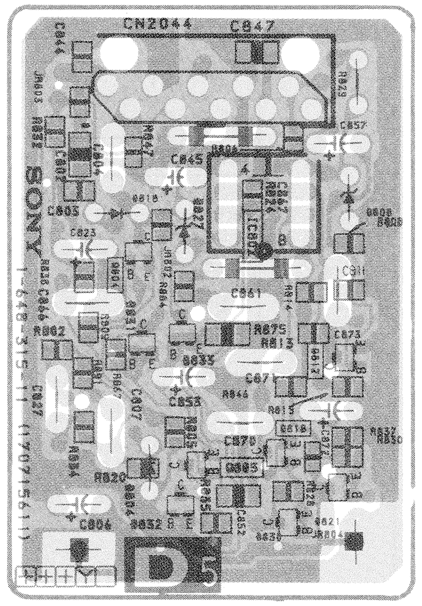
TRANSISTOR	
Q1301	C – 2
Q1302	B – 3
Q1303	B – 2
Q1304	C – 1
Q1305	B – 2
Q1306	B – 1
Q1307	C – 3
Q1308	C – 4
Q1310	D – 3

DIODE	
D1301	C – 1

Note :

- ░ : Pattern from the side which enables seeing.
- ▒ : Pattern of the rear side.

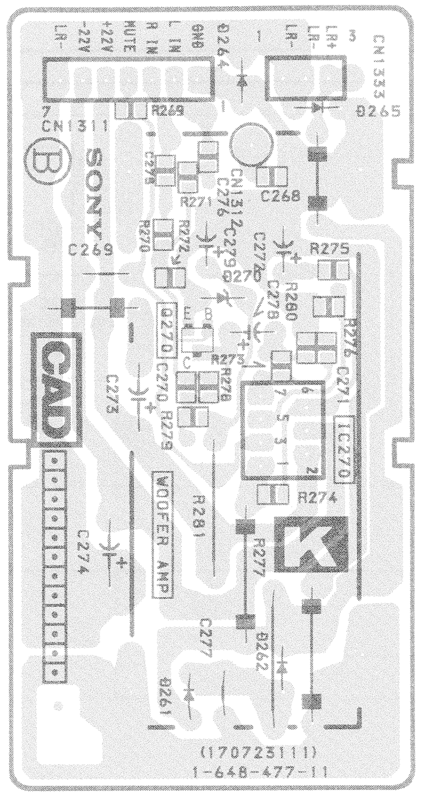
– D5 BOARD –


CN2044
C847
SONY
D5
1-648-315-11
(170715611)
IC802
C861
C870
C853
C806

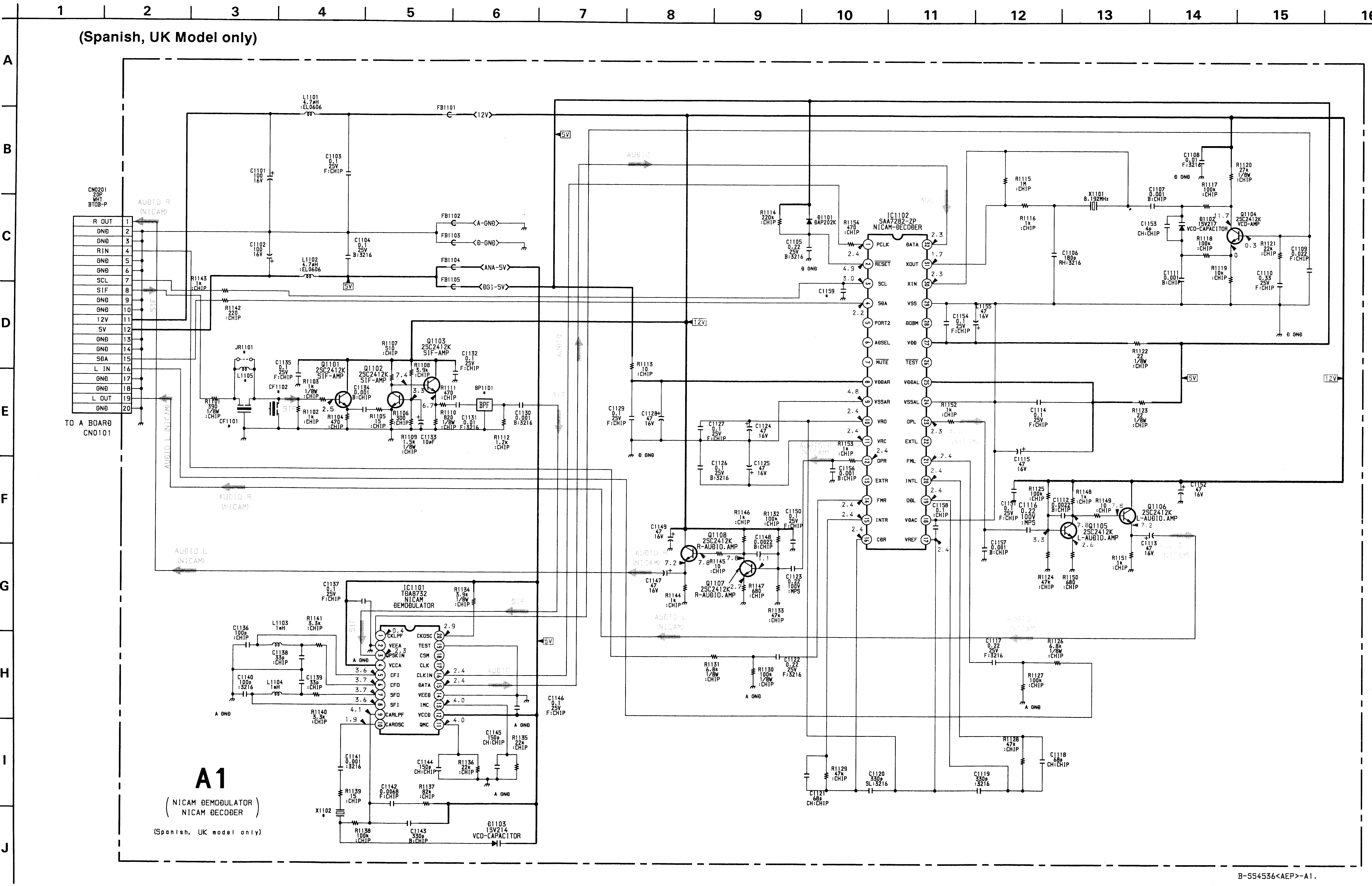
Note :

- ░ : Pattern from the side which enables seeing.
- ▒ : Pattern of the rear side.

– K BOARD –


CN1311
CN1333
SONY
B
CAD
K
WOOFER AMP
IC270
C268
C269
C271
C273
C274
C277
R274
R275
R277
R281
D261
D262
D264
D265
(170723111)
1-648-477-11

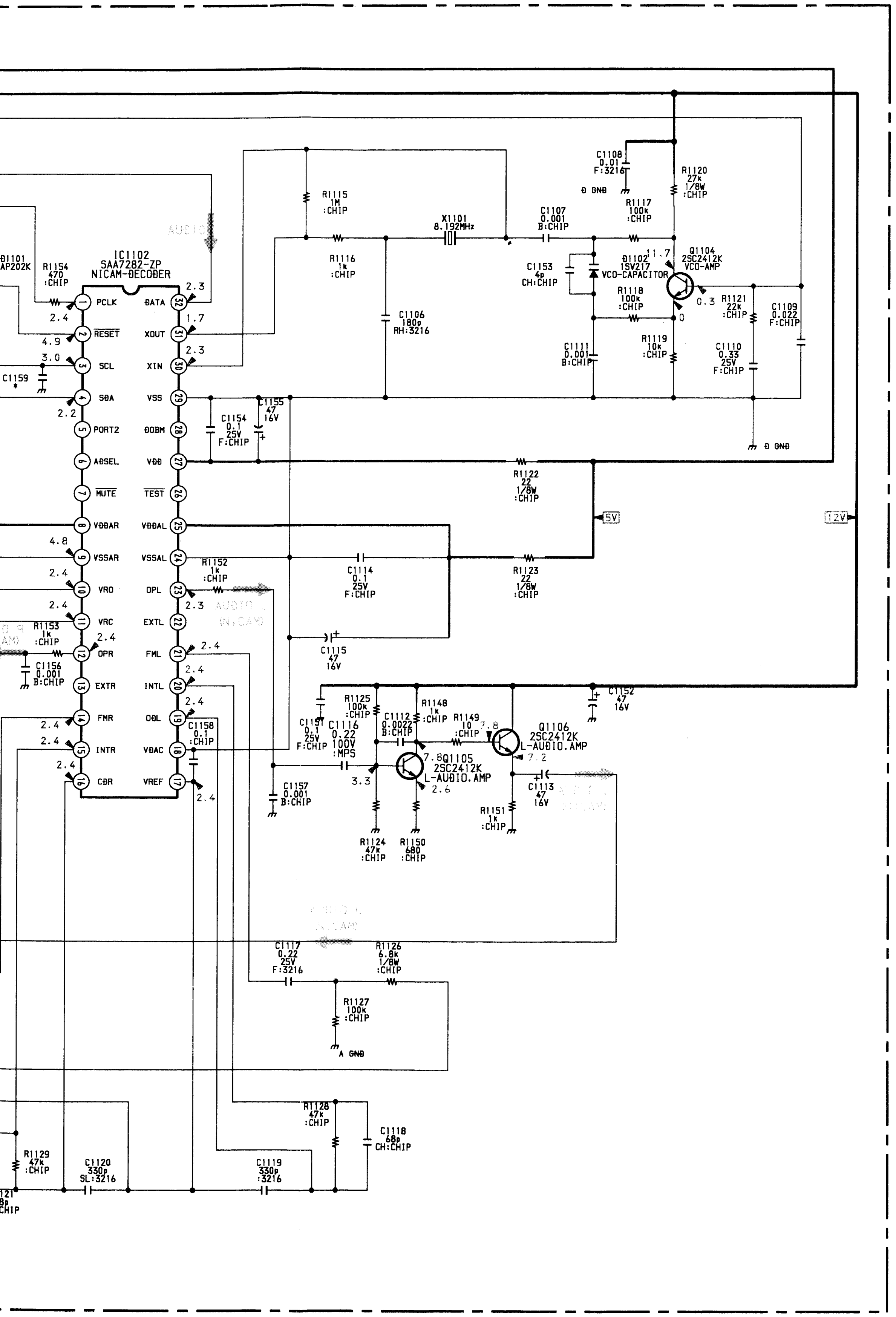
(Spanish, UK Model only)


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
A
B
C
D
E
F
G
H
I
J
CN0201 20P WHT BTOB-P
R OUT 1
GND 2
GND 3
RIN 4
GND 5
GND 6
SCL 7
SIF 8
GND 9
GND 10
12V 11
5V 12
GND 13
GND 14
SDA 15
L IN 16
GND 17
GND 18
L OUT 19
GND 20
TO A BOARD CN0101
AUDIO R (NICAM)
AUDIO L (NICAM)
SIF
L1101 4.7µH :EL0606
L1102 4.7µH :EL0606
C1101 100 16V
C1102 100 16V
C1103 0.1 25V F:CHIP
C1104 0.1 25V B:3216
FB1101
FB1102
FB1103
FB1104
FB1105
12V
5V
A-GND
D-GND
ANA-5V
DGI-5V
R1143 1k :CHIP
R1142 220 :CHIP
JR1101
L1105
CF1101
CF1102
R1101 390 1/8W :CHIP
C1135 0.1 25V F:CHIP
R1103 1k 1/8W :CHIP
R1102 1k :CHIP
Q1101 2SC2412K SIF-AMP
Q1102 2SC2412K SIF-AMP
Q1103 2SC2412K SIF-AMP
R1104 470 :CHIP
C1134 0.001 B:CHIP
R1105 15 :CHIP
R1106 300 :CHIP
R1107 510 :CHIP
R1108 3.9k :CHIP
R1109 1.5k 1/8W :CHIP
C1133 10µF
R1111 470 :CHIP
R1110 820 1/8W :CHIP
C1131 0.01 F:3216
C1132 0.1 25V F:CHIP
BP1101
BPF
C1130 0.001 B:3216
R1112 1.2k :CHIP
2.5
7.4
3.3
6.7
R1113 10 :CHIP
C1129 0.1 25V F:CHIP
C1128 47 16V
D GND
IC1101 TDA8732 NICAM DEMODULATOR
CKLPF
VEEA
DPSKIN
VCCA
CFI
CFO
SFO
SFI
CARLPF
CAROSC
CKOSC
TEST
CSM
CLK
CLKIN
DATA
VEED
IMC
VCCD
QMC
C1137 0.1 25V F:CHIP
R1134 3.9k 1/8W :CHIP
C1136 100p :CHIP
L1103 1mH
R1141 3.3k :CHIP
C1138 33p :CHIP
C1140 100p :3216
L1104 1mH
C1139 33p :CHIP
R1140 3.3k :CHIP
0.4
2.9
2.3
3.6
3.7
4.1
1.9
2.4
4.0
A GND
C1146 0.1 25V F:CHIP
C1145 150p CH:CHIP
R1135 22k :CHIP
C1144 150p CH:CHIP
R1136 22k :CHIP
C1141 0.001 :3216
R1139 15 :CHIP
C1142 0.0068 F:CHIP
R1137 82k :CHIP
X1102
R1138 100k :CHIP
C1143 330p B:CHIP
D1103 1SV214 VCO-CAPACITOR
A1
(NICAM DEMODULATOR NICAM DECODER)
(Spanish, UK model only)
AUDIO
IC1102 SAA7282-ZP NICAM-DECODER
PCLK
RESET
SCL
SDA
PORT2
ADSEL
MUTE
VDDAR
VSSAR
VRO
VRC
OPR
EXTR
FMR
INTR
CBR
DATA
XOUT
XIN
VSS
DDBM
VDD
TEST
VDDAL
VSSAL
OPL
EXTL
FML
INTL
OBL
VDAC
VREF
R1114 220k :CHIP
D1101 DAP202K
R1154 470 :CHIP
C1105 0.22 25V B:3216
C1159
4.9
3.0
2.2
4.8
2.4
1.7
2.3
C1127 0.1 25V F:CHIP
C1124 47 16V
C1126 0.1 25V B:3216
C1125 47 16V
R1153 1k :CHIP
C1156 0.001 B:CHIP
C1154 0.1 25V F:CHIP
C1155 47 16V
R1152 1k :CHIP
C1114 0.1 25V F:CHIP
C1115 47 16V
C1158 0.1 :CHIP
R1146 1k :CHIP
R1132 100k :CHIP
C1150 0.1 25V F:CHIP
C1149 47 16V
Q1108 2SC2412K R-AUDIO.AMP
C1148 0.0022 B:CHIP
R1145 10 :CHIP
Q1107 2SC2412K R-AUDIO.AMP
C1147 47 16V
R1144 1k :CHIP
R1147 680 :CHIP
C1123 0.22 100V :MPS
R1133 47k :CHIP
7.2
7.8
2.7
R1131 6.8k 1/8W :CHIP
R1130 100k 1/8W :CHIP
C1122 0.22 25V F:3216
R1129 47k :CHIP
C1121 68p CH:CHIP
C1120 330p SL:3216
C1119 330p :3216
R1128 47k :CHIP
C1118 68p CH:CHIP
C1117 0.22 25V F:3216
R1126 6.8k 1/8W :CHIP
R1127 100k :CHIP
R1115 1M :CHIP
R1116 1k :CHIP
X1101 8.192MHz
C1106 180p RH:3216
C1107 0.001 B:CHIP
C1108 0.01 F:3216
R1117 100k :CHIP
R1120 27k 1/8W :CHIP
C1153 4p CH:CHIP
D1102 1SV217 VCO-CAPACITOR
Q1104 2SC2412K VCO-AMP
R1118 100k :CHIP
R1119 10k :CHIP
C1111 0.001 B:CHIP
C1110 0.33 25V F:CHIP
R1121 22k :CHIP
C1109 0.022 F:CHIP
11.7
0.3
R1122 22 1/8W :CHIP
R1123 22 1/8W :CHIP
C1152 47 16V
C1151 0.1 25V F:CHIP
C1116 0.22 100V :MPS
R1125 100k :CHIP
C1112 0.0022 B:CHIP
R1148 1k :CHIP
R1149 10 :CHIP
Q1106 2SC2412K L-AUDIO.AMP
Q1105 2SC2412K L-AUDIO.AMP
C1157 0.001 B:CHIP
C1113 47 16V
R1151 1k :CHIP
R1124 47k :CHIP
R1150 680 :CHIP
3.3
2.6
7.8

B-SS4536<AEP>-A1.

A1 BO

	M
BP11	
C115	
CF11	
CF11	
L110	
JR11	
X110	

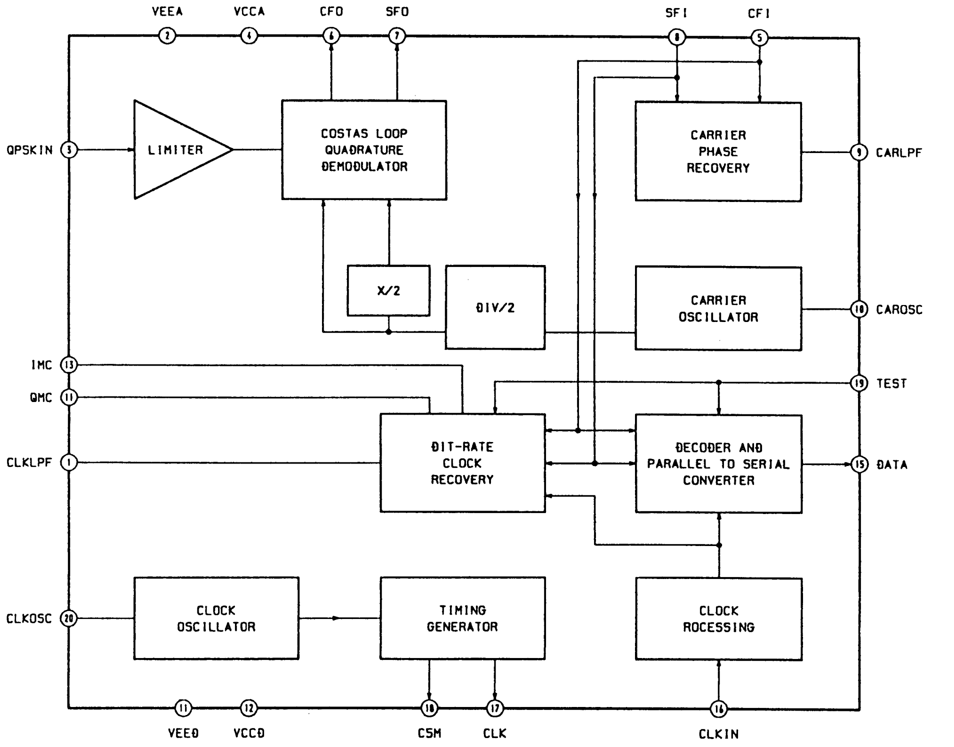

IC1102
SAA7282-ZP
NICAM-DECODER
PCLK
RESET
SCL
SDA
PORT2
ADSEL
MUTE
VDDAR
VSSAR
VRO
VRC
OPR
EXTR
FMR
INTR
CBR
DATA
XOUT
XIN
VSS
DDBM
VDD
TEST
VDDAL
VSSAL
OPL
EXTL
FML
INTL
DDL
VDAC
VREF
X1101
8.192MHz
Q1102
1SV217
VCO-CAPACITOR
Q1104
2SC2412K
VCO-AMP
Q1105
2SC2412K
L-AUDIO.AMP
Q1106
2SC2412K
L-AUDIO.AMP
5V
12V
A GND
D GND

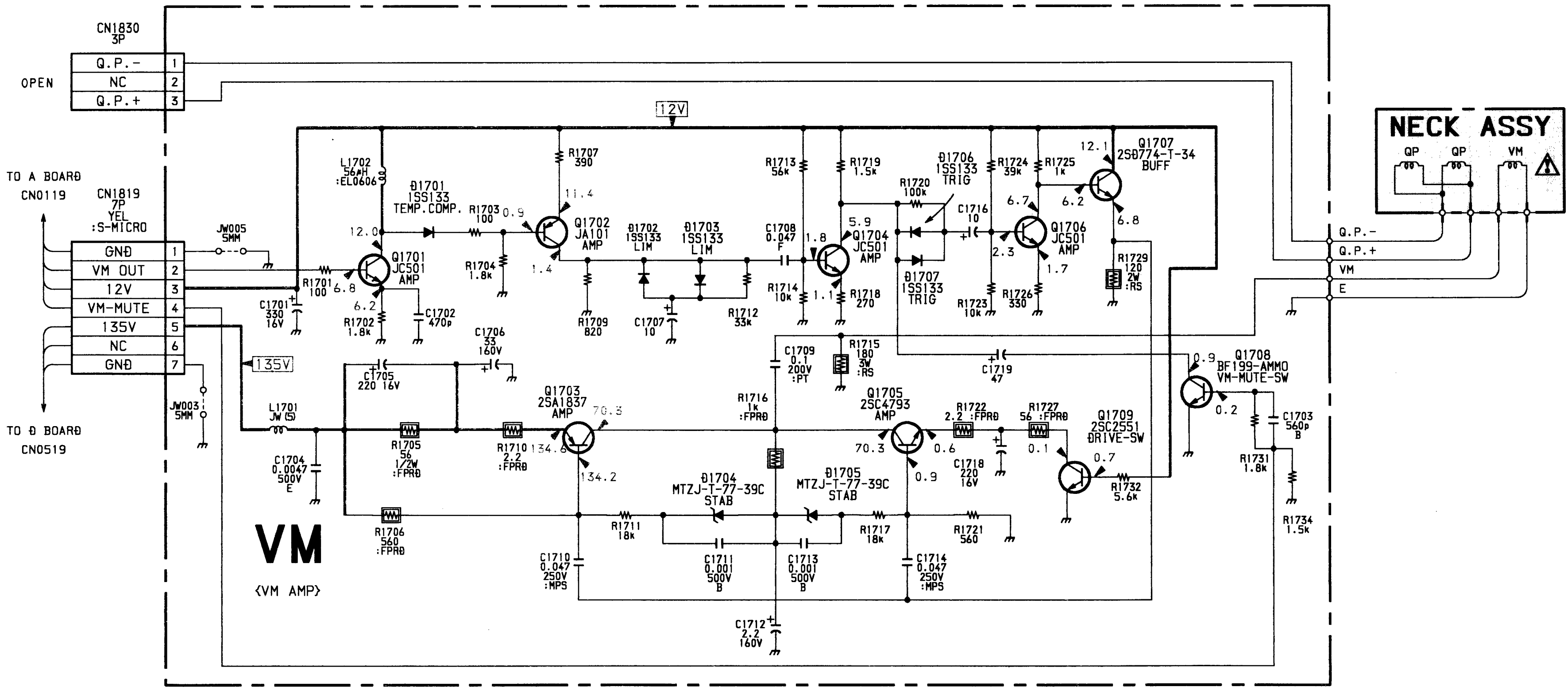
B-SS4536<AEP>-A1.

A1 BOARD ＊ MARK

Model	Spanish	UK
BP1101	5.850MHz	6.552MHz
C1159	–	47PF／50V
CF1101	–	6.0MHz
CF1102	5.5MHz	–
L1105	–	1MMH
JR1101	0 1／8W	–
X1102	11.700MHz	13.104MHz

• A1 BOARD IC1101 TDA8732

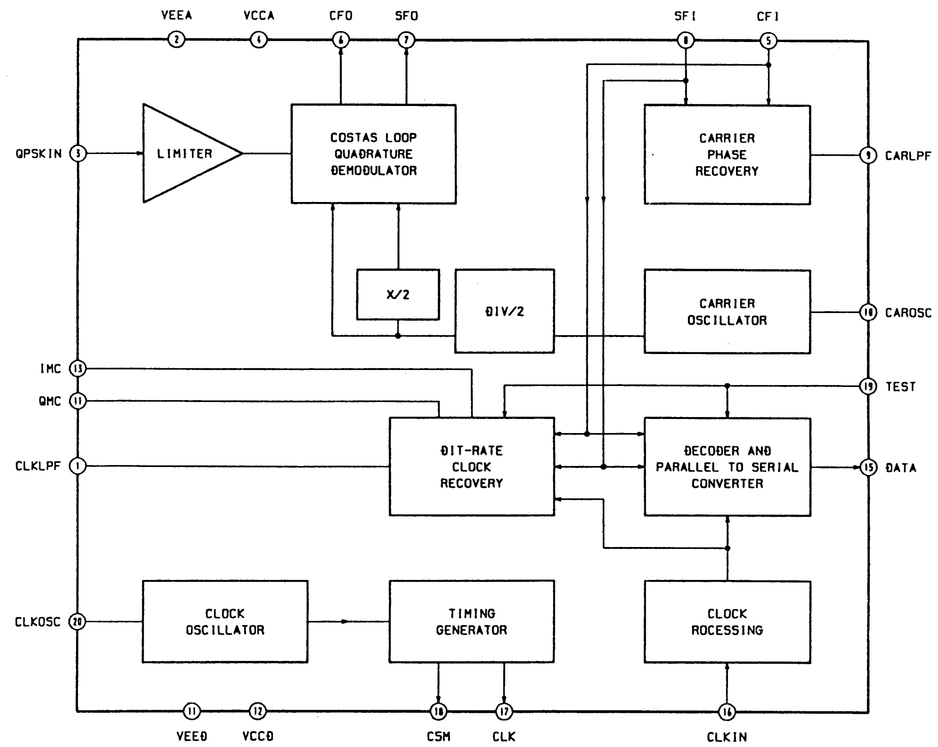

VEEA
VCCA
CFO
SFO
SFI
CFI
QPSKIN
LIMITER
COSTAS LOOP
QUADRATURE
DEMODULATOR
CARRIER
PHASE
RECOVERY
CARLPF
X/2
DIV/2
CARRIER
OSCILLATOR
CAROSC
IMC
QMC
TEST
CLKLPF
BIT-RATE
CLOCK
RECOVERY
DECODER AND
PARALLEL TO SERIAL
CONVERTER
DATA
CLKOSC
CLOCK
OSCILLATOR
TIMING
GENERATOR
CLOCK
ROCESSING
VEED
VCCD
CSM
CLK
CLKIN

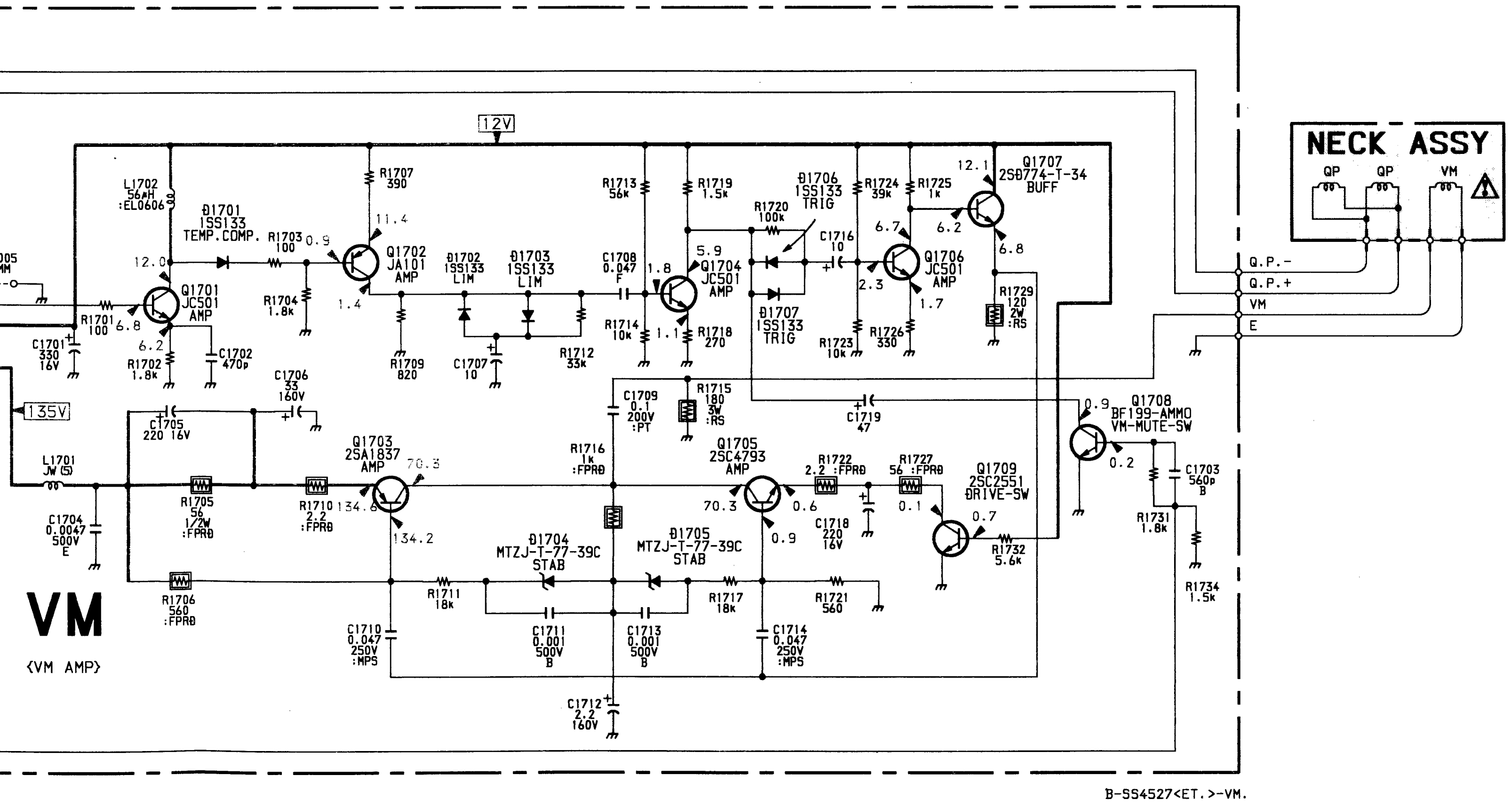

CN1830
3P
Q.P.-
NC
Q.P.+
OPEN
TO A BOARD
CN0119
CN1819
7P
YEL
:S-MICRO
GND
VM OUT
12V
VM-MUTE
135V
NC
GND
TO D BOARD
CN0519
12V
135V
Q1701
JC501
AMP
Q1702
JA101
AMP
Q1703
2SA1837
AMP
Q1704
JC501
AMP
Q1705
2SC4793
AMP
Q1706
JC501
AMP
Q1707
2SD774-T-34
BUFF
Q1708
BF199-AMMO
VM-MUTE-SW
Q1709
2SC2551
DRIVE-SW
D1701
1SS133
TEMP.COMP.
D1702
1SS133
LIM
D1703
1SS133
LIM
D1704
MTZJ-T-77-39C
STAB
D1705
MTZJ-T-77-39C
STAB
D1706
1SS133
TRIG
D1707
1SS133
TRIG
VM
〈VM AMP〉
NECK ASSY
QP
QP
VM
Q.P.-
Q.P.+
VM
E

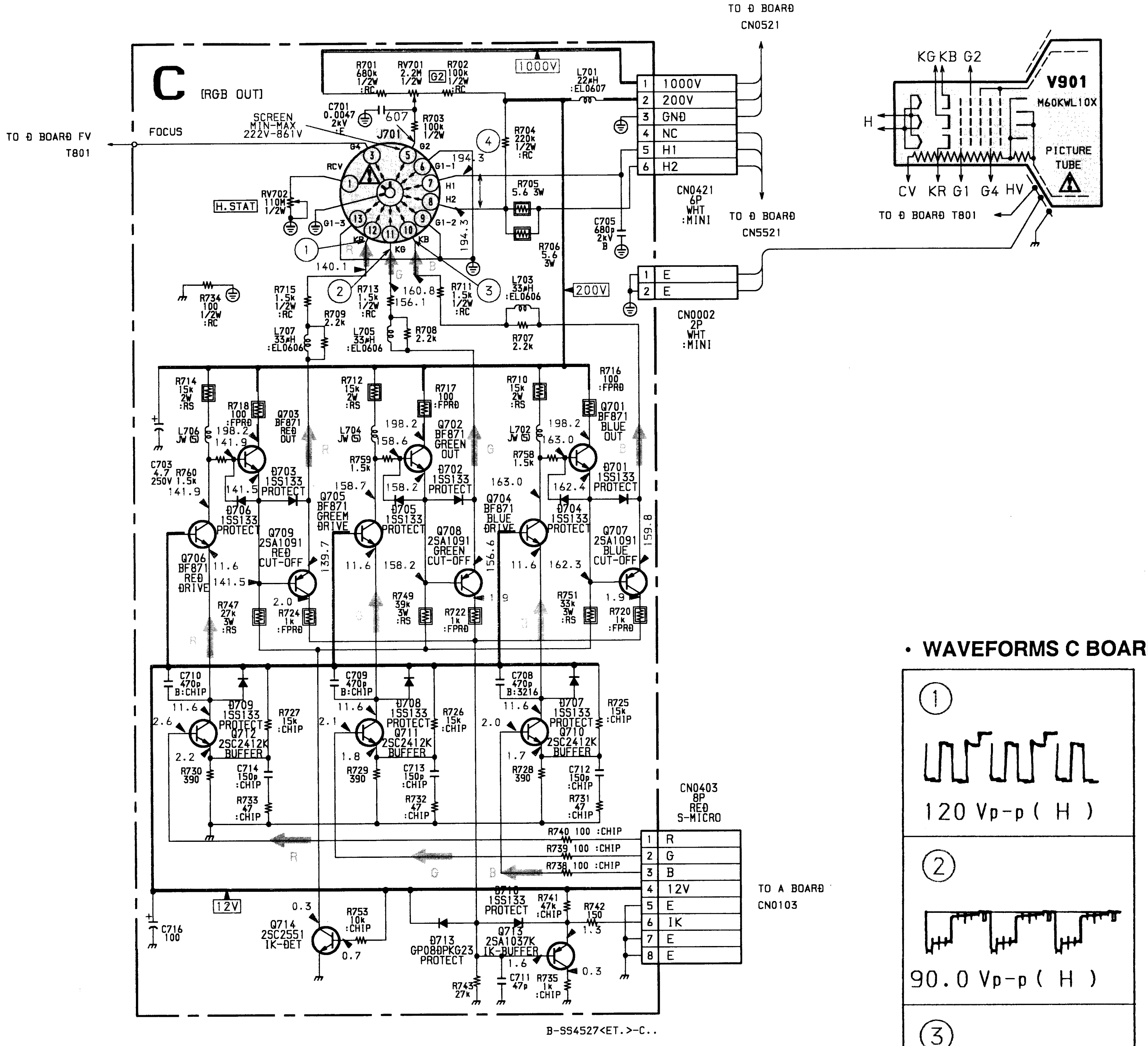
B-SS4527<ET.>-VM.

UK
6.552MHz
47PF/50V
6.0MHz
-
1MMH
-
13.104MHz

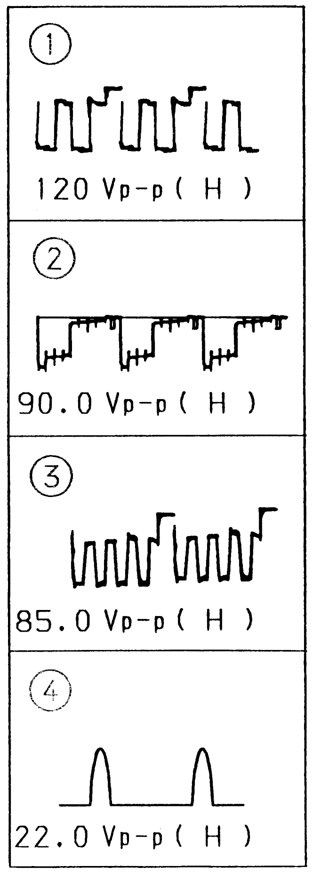
• A1 BOARD IC1101 TDA8732


VEEA
VCCA
CFO
SFO
SFI
CFI
QPSKIN
LIMITER
COSTAS LOOP QUADRATURE DEMODULATOR
CARRIER PHASE RECOVERY
CARLPF
X/2
DIV/2
CARRIER OSCILLATOR
CAROSC
IMC
QMC
TEST
BIT-RATE CLOCK RECOVERY
DECODER AND PARALLEL TO SERIAL CONVERTER
DATA
CLKLPF
CLKOSC
CLOCK OSCILLATOR
TIMING GENERATOR
CLOCK ROCESSING
VEED
VCCD
CSM
CLK
CLKIN


12V
135V
NECK ASSY
QP
QP
VM
Q.P.-
Q.P.+
VM
E
Q1701 JC501 AMP
Q1702 JA101 AMP
Q1704 JC501 AMP
Q1706 JC501 AMP
Q1707 2SD774-T-34 BUFF
D1701 1SS133 TEMP.COMP.
D1702 1SS133 LIM
D1703 1SS133 LIM
D1706 1SS133 TRIG
D1707 1SS133 TRIG
Q1703 2SA1837 AMP
Q1705 2SC4793 AMP
Q1709 2SC2551 DRIVE-SW
Q1708 BF199-AMMO VM-MUTE-SW
D1704 MTZJ-T-77-39C STAB
D1705 MTZJ-T-77-39C STAB
L1702 56μH :EL0606
L1701
VM
<VM AMP>
B-SS4527<ET.>-VM.

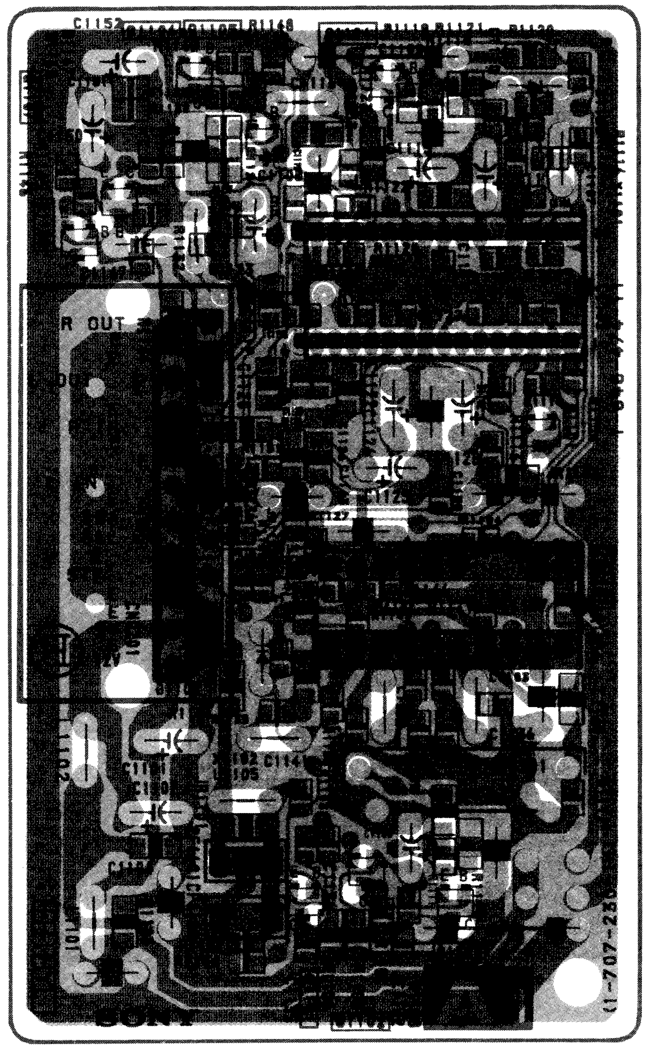

C
[RGB OUT]
TO D BOARD FV T801
FOCUS
SCREEN MIN-MAX 222V-861V
J701
H.STAT
1000V
TO D BOARD CN0521
1 1000V
2 200V
3 GND
4 NC
5 H1
6 H2
CN0421 6P WHT :MINI
TO D BOARD CN5521
1 E
2 E
CN0002 2P WHT :MINI
200V
V901
M60KWL10X
PICTURE TUBE
KG KB G2
H
CV KR G1 G4 HV
TO D BOARD T801
Q703 BF871 RED OUT
Q702 BF871 GREEN OUT
Q701 BF871 BLUE OUT
D703 1SS133 PROTECT
D702 1SS133 PROTECT
D701 1SS133 PROTECT
Q706 BF871 RED DRIVE
Q705 BF871 GREEM DRIVE
Q704 BF871 BLUE DRIVE
Q709 2SA1091 RED CUT-OFF
Q708 2SA1091 GREEN CUT-OFF
Q707 2SA1091 BLUE CUT-OFF
Q712 2SC2412K BUFFER
Q711 2SC2412K BUFFER
Q710 2SC2412K BUFFER
CN0403 8P RED S-MICRO
1 R
2 G
3 B
4 12V
5 E
6 IK
7 E
8 E
TO A BOARD CN0103
12V
Q714 2SC2551 IK-DET
D713 GP08DPKG23 PROTECT
Q713 2SA1037K IK-BUFFER
B-SS4527<ET.>-C..

• WAVEFORMS C BOARD

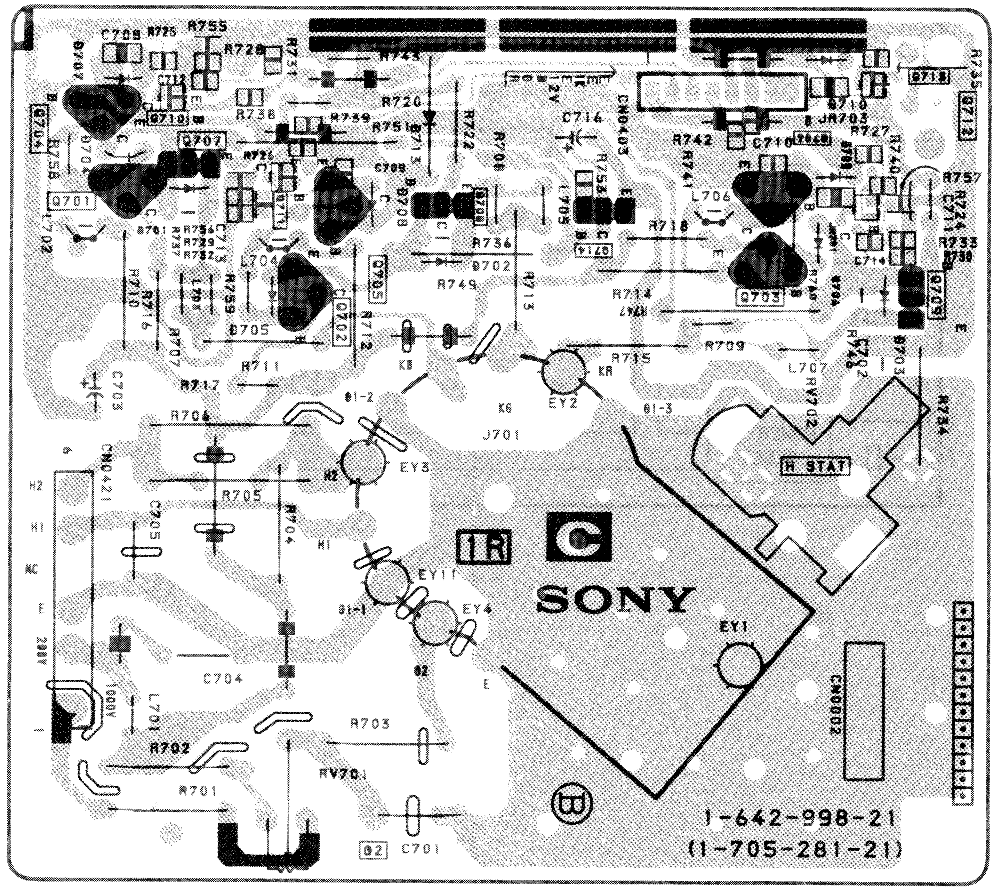


A1 [NICAM DECODER, NICAM DEMODULATOR] C [R.G.B OUT] VM [VM AMP]

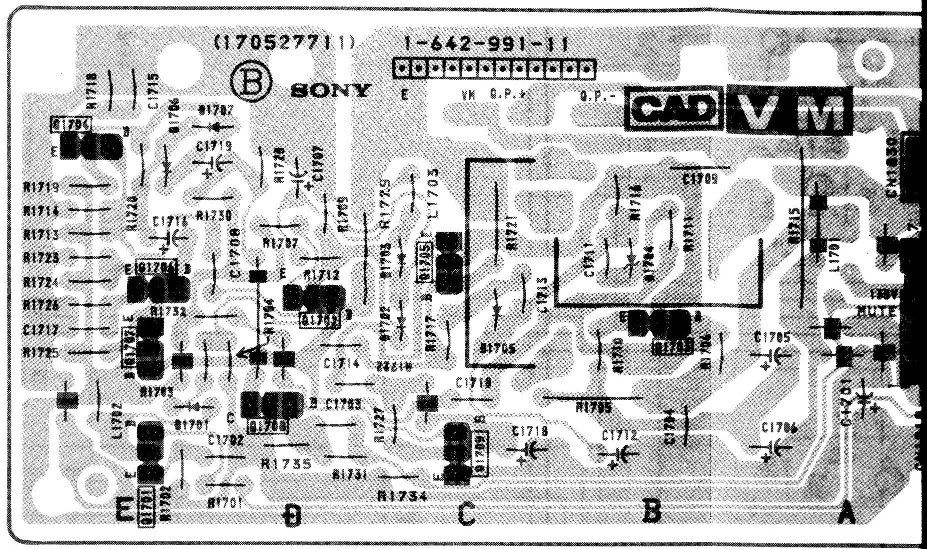
– A1 BOARD – (Spanish, UK Model only)


C1152
R1148
R OUT
SONY
A1
1-707-28

– C BOARD –

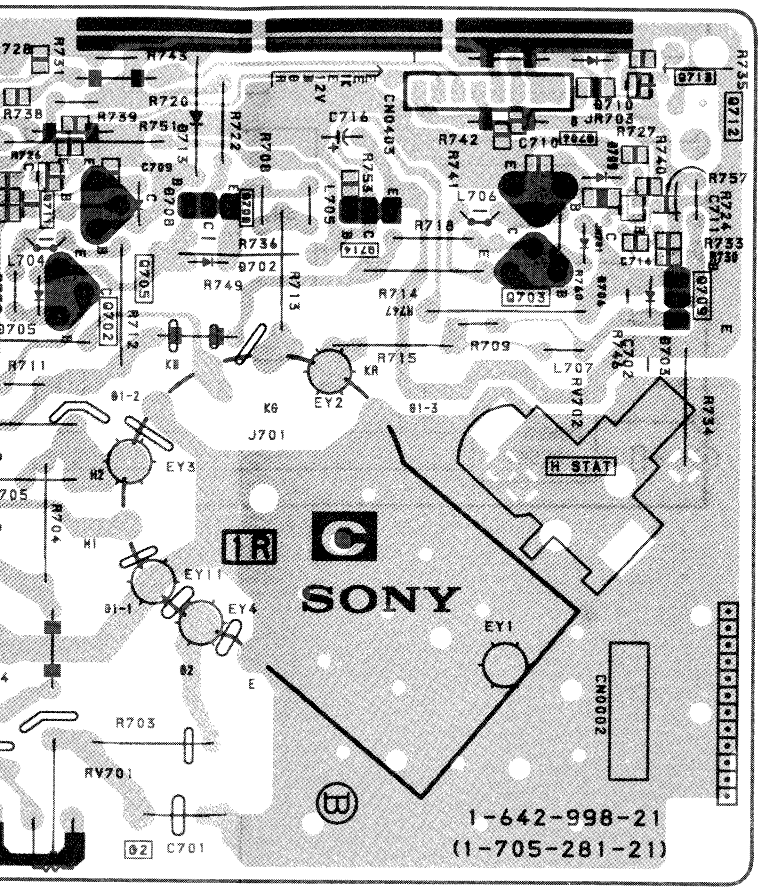

C708
R725
R755
R728
R743
R735
Q707
Q704
Q710
Q712
Q713
Q701
Q702
Q703
Q705
Q708
Q709
R720
R739
R751
R722
R708
R738
C716
CN0403
12V
R742
C710
JR703
R727
R757
R724
C711
R733
R730
R718
R741
L706
L702
R758
R736
R749
R713
R714
R747
R709
R710
R716
R759
R712
R707
R711
R717
R704
R705
R706
R715
R734
R703
R702
R701
RV701
RV702
L704
L705
L707
L701
C703
C704
C705
C709
C701
C702
C713
CN0421
KB
KG
KR
EY1
EY2
EY3
EY4
EY11
J701
H STAT
B1-1
B1-2
B1-3
H2
H1
NC
E
200V
1000V
IR
C
SONY
CN0002
1-642-998-21
(1-705-281-21)

– VM BOARD –

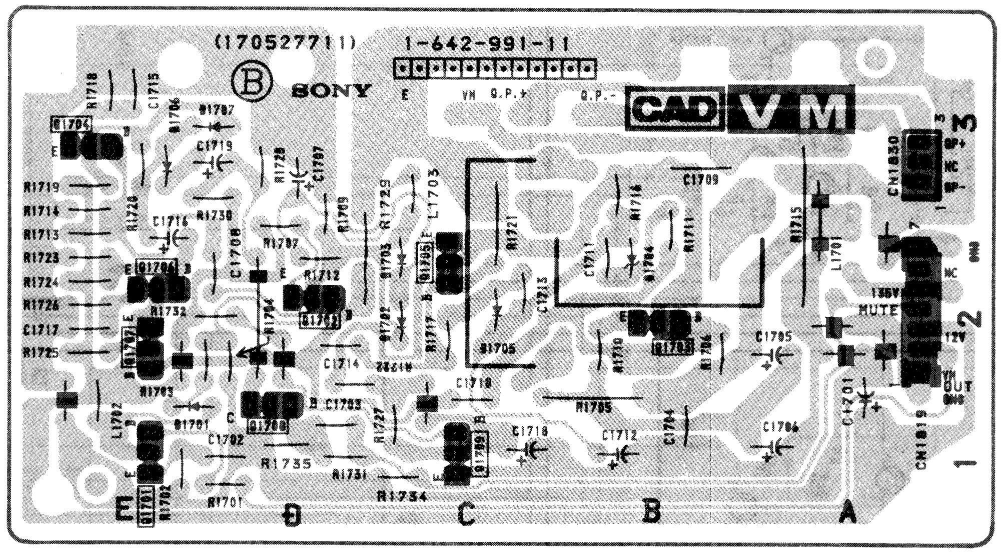

(170527711)
1-642-991-11
SONY
CAD
V M
Q.P.+
Q.P.-
R1718
R1719
R1714
R1713
R1723
R1724
R1726
C1717
R1725
C1715
C1719
C1716
C1707
C1708
C1709
C1705
C1706
C1710
C1711
C1712
C1713
C1714
C1718
C1702
L1703
L1701
L1702
R1720
R1721
R1729
R1730
R1732
R1735
R1734
R1731
R1727
R1705
R1707
R1712
R1701
R1702
R1703
R1704
R1715
R1716
Q1701
Q1702
Q1703
Q1704
Q1705
Q1706
Q1707
Q1708
Q1709
D1701
D1707
MUTE
E
D
C
B
A

Note :

- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear side.

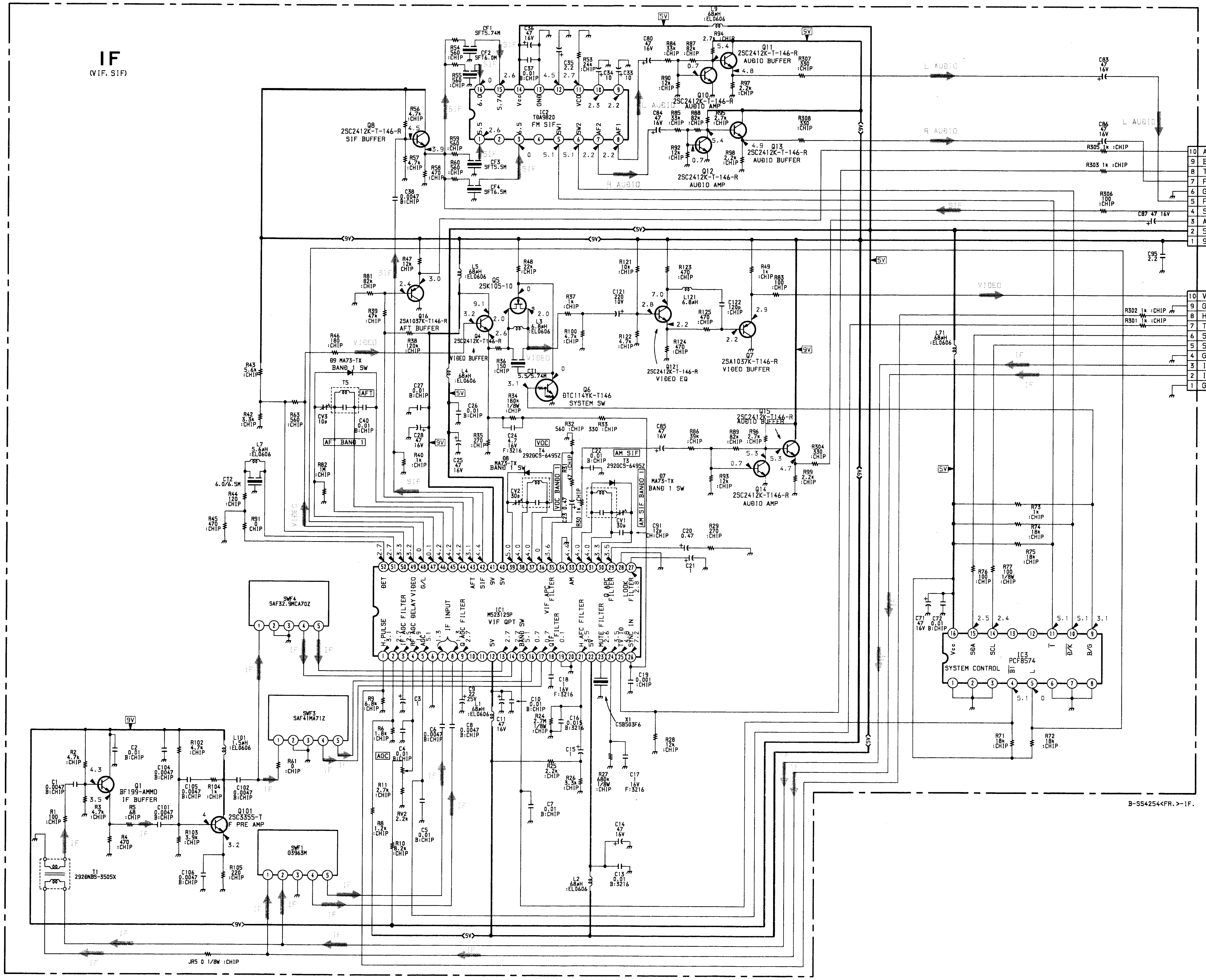

1-642-998-21
(1-705-281-21)
SONY
1R
C
H STAT
CN0002
CN0403
J701
RV701
RV702
R703
R704
R709
R713
R714
R715
R720
R736
R742
R749
C701
C710
C714
C716
L704
L706
L707
Q702
Q703
Q705
Q709
Q712
Q718
EY1
EY2
EY3
EY4
EY11
KG
KB
KR

– VM BOARD –

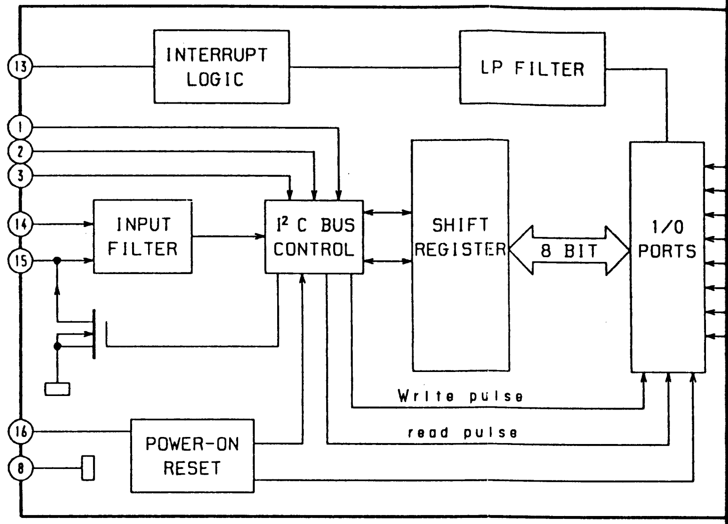

(170527711)
1-642-991-11
SONY
CAD
VM
E
VM
Q.P.+
Q.P.-
CN1830
CN1819
SP+
NC
SP-
MUTE
135V
12V
VM OUT
GND
1
2
3
A
B
C
D
E
R1719
R1714
R1713
R1723
R1724
R1726
C1717
R1725
R1732
R1735
R1734
R1731
R1701
R1705
R1712
R1721
R1729
L1703
L1702
L1701
C1709
C1705
C1706
C1712
C1718
C1713
C1714
C1719
C1702
C1703
C1715
C1716
C1707
C1708
Q1701
Q1702
Q1703
Q1704
Q1705
Q1706
Q1707
Q1709
Q1710

Schematic diagrams
IF boards ➡

IFH389F (French Model)

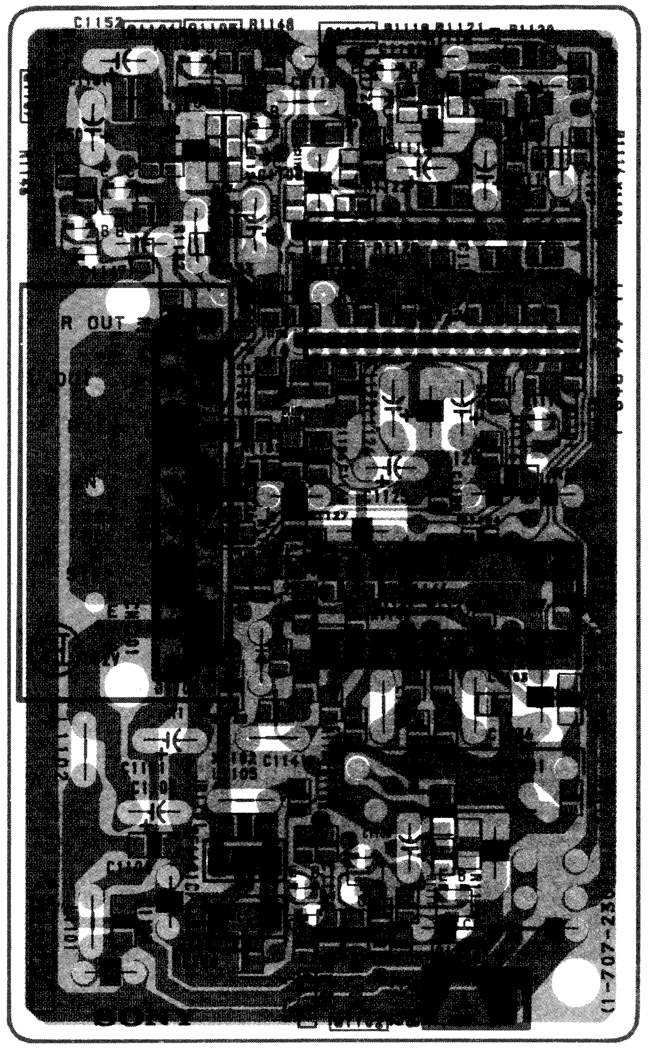

IF
(VIF, SIF)
IC1 M52325SP VIF QPT
IC2 TDA9820 FM SIF
IC3 PCF8574 SYSTEM CONTROL
Q1 BF199-AMMO IF BUFFER
Q101 2SC5355-T IF PRE AMP
Q8 2SC2412K-T-146-R SIF BUFFER
Q10 2SC2412K-T-146-R AUDIO AMP
Q11 2SC2412K-T-146-R AUDIO BUFFER
Q12 2SC2412K-T-146-R AUDIO AMP
Q13 2SC2412K-T-146-R AUDIO BUFFER
Q14 2SC2412K-T-146-R AUDIO AMP
Q15 2SC2412K-T-146-R AUDIO BUFFER
Q16 2SA1037K-T146-R AFT BUFFER
Q4 2SC2412K-T-146-R VIDEO BUFFER
Q5 2SK105-10
Q6 DTC114YK-T146 SYSTEM SW
Q121 2SC2412K-T-146-R VIDEO EQ
Q7 2SA1037K-T146-R VIDEO BUFFER
SWF1 G3963M
SWF3 SAF41MA71Z
SWF4 SAF32.5MCA70Z
T1 2920NB5-3505X
X1 CSB503F6
CN2 10P WHT
10 AFT
9 BG/DK
8 TV ID
7 FM2
6 GND
5 FM1
4 SIF
3 AM MONO
2 5V
1 9V
TO A BOARD IFB101
CN1 10P WHT
10 VIDEO
9 GND
8 H-PULSE
7 TU AGC
6 SDA
5 SCL
4 GND
3 IF IN
2 IF IN
1 GND
TO A BOARD IFB101
L AUDIO
R AUDIO
VIDEO
SIF
IF
9V
5V
JR5 0 1/8W :CHIP
B-SS4254<FR.>-IF.

• IF BOARD IC3 PC8574 (French Model)

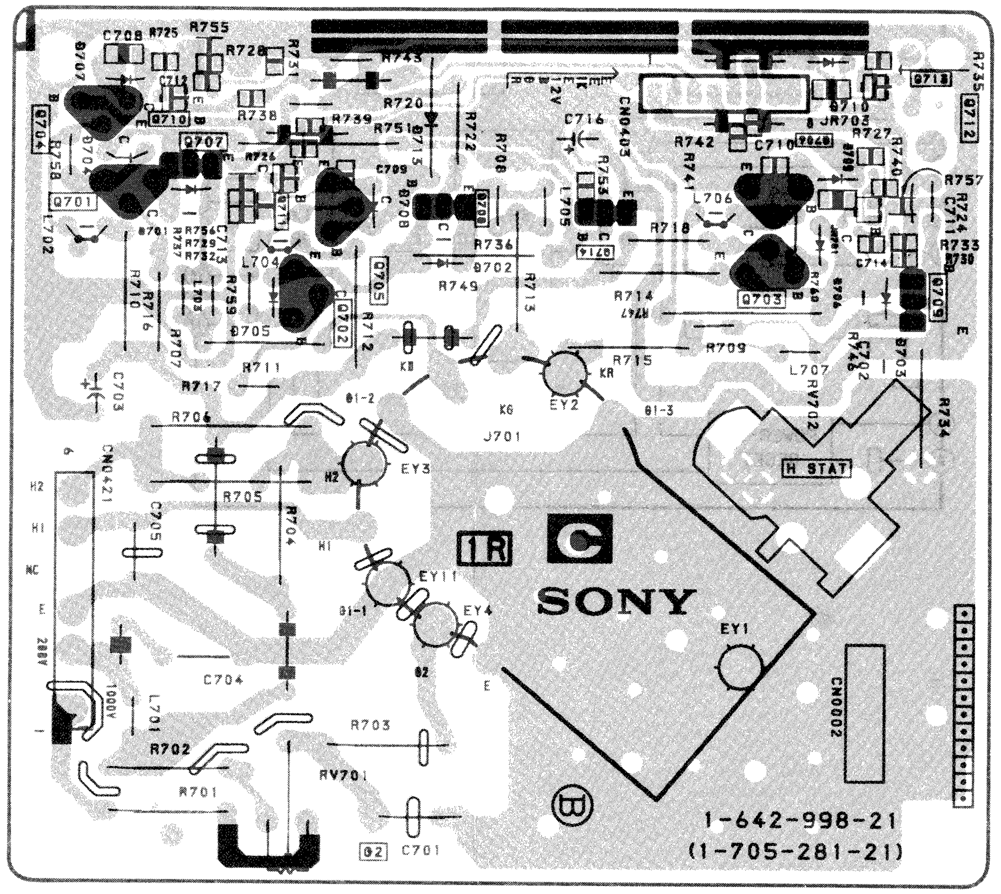

INTERRUPT LOGIC
LP FILTER
INPUT FILTER
I² C BUS CONTROL
SHIFT REGISTER
8 BIT
I/O PORTS
POWER-ON RESET
Write pulse
read pulse
13
1
2
3
14
15
16
8

A1 [NICAM DECODER, NICAM DEMODULATOR] C [R.G.B OUT] VM [VM AMP]

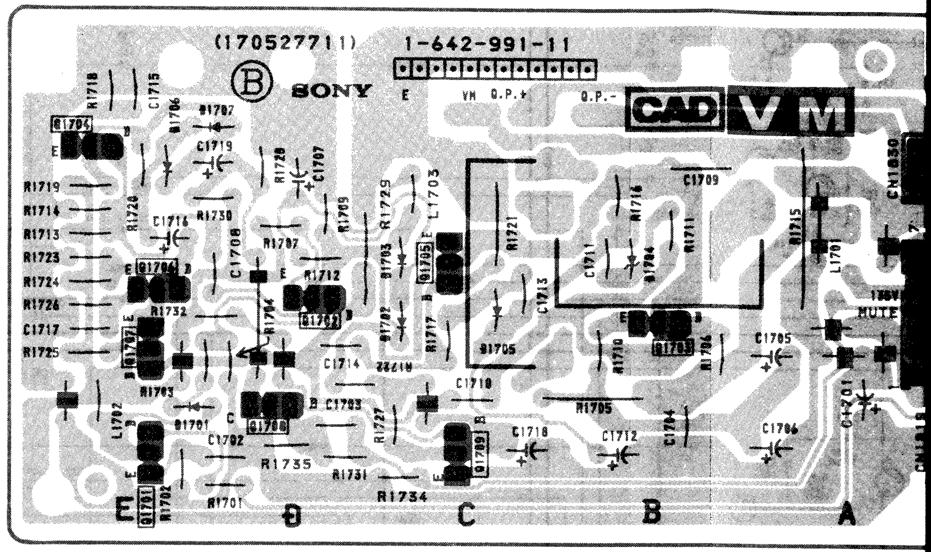
– A1 BOARD – (Spanish, UK Model only)


C1152
R OUT
SONY

– C BOARD –

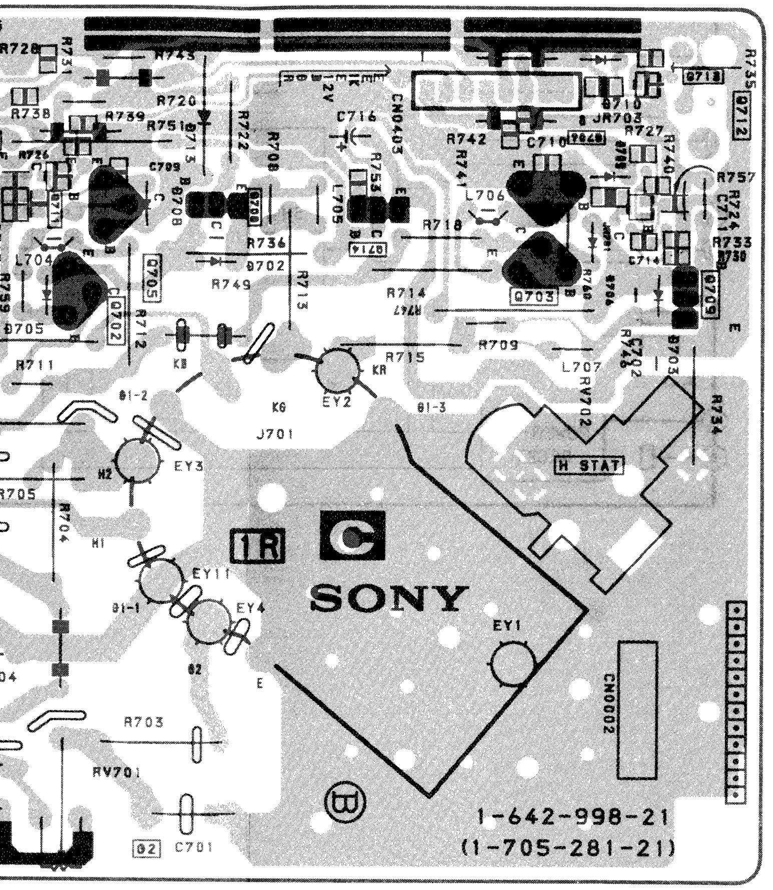

H STAT
1R
C
SONY
EY1
EY2
EY3
EY4
J701
1-642-998-21
(1-705-281-21)

– VM BOARD –

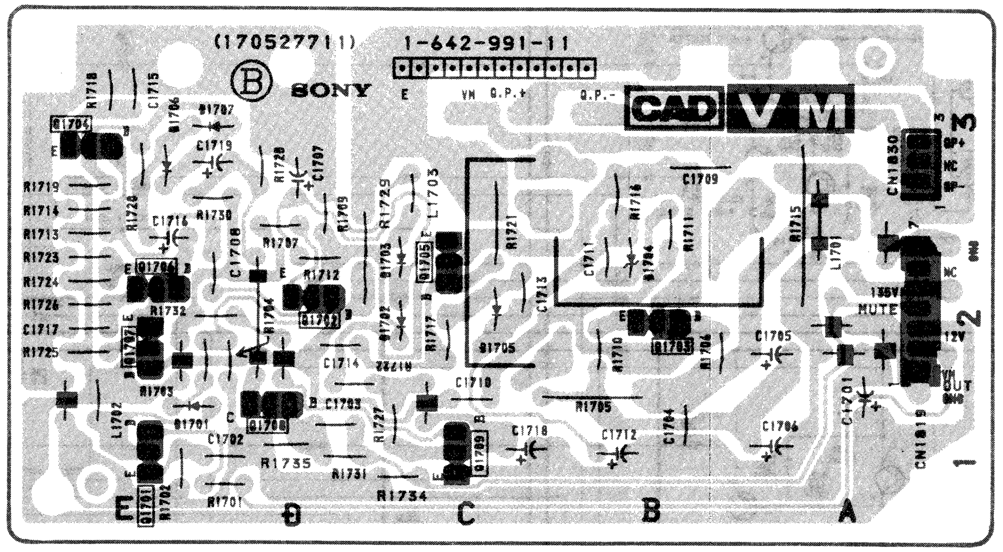

(1705277 1 1)
1-642-991-11
SONY
CAD
V M
E
D
C
B
A

Note :

- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear side.

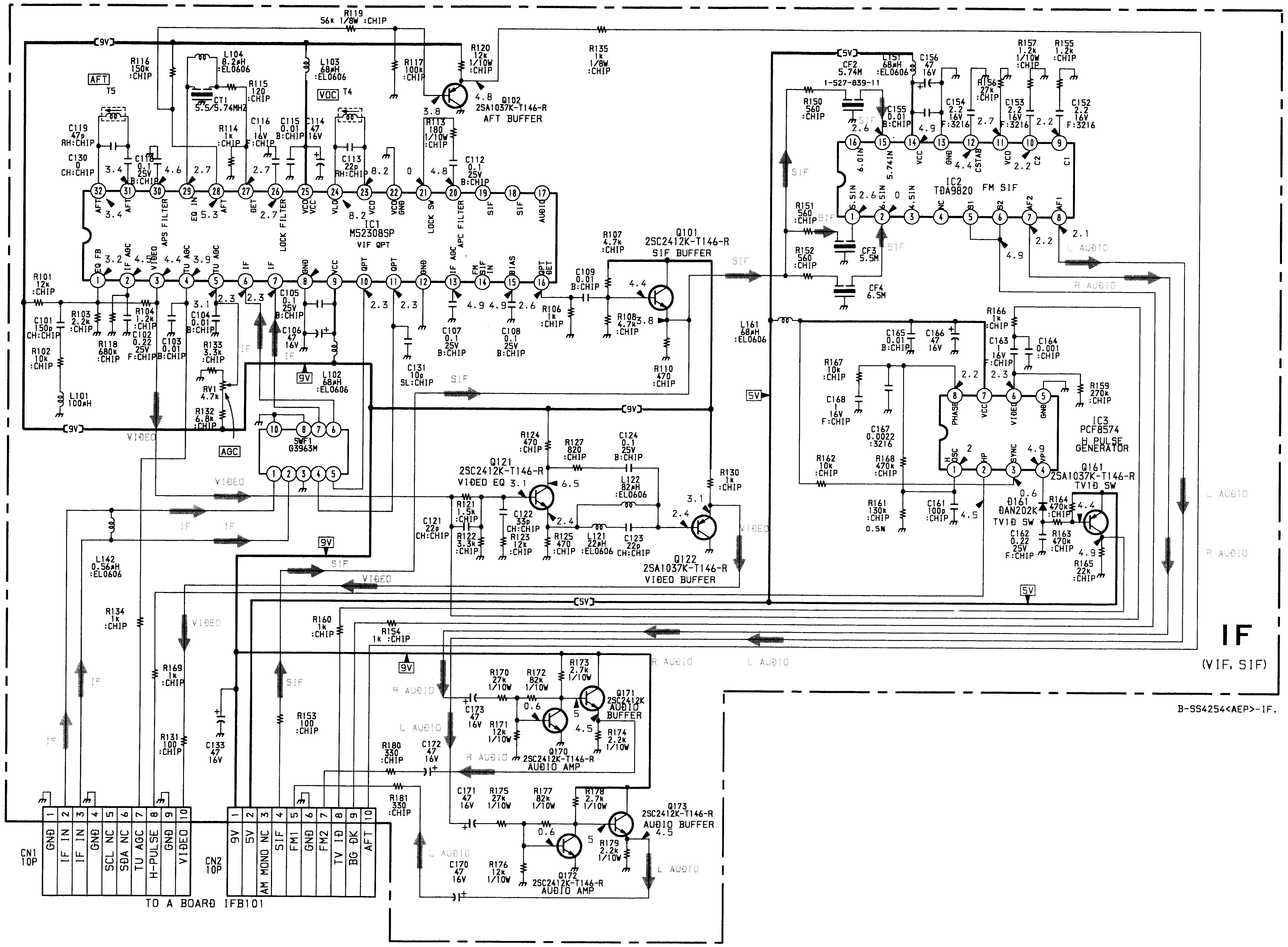

1R
C
SONY
H STAT
CN0002
1-642-998-21
(1-705-281-21)
Q703
Q705
Q702
RV701
RV702
J701
EY1
EY2
EY3
EY4
EY11
C701
C716
CN0403

– VM BOARD –

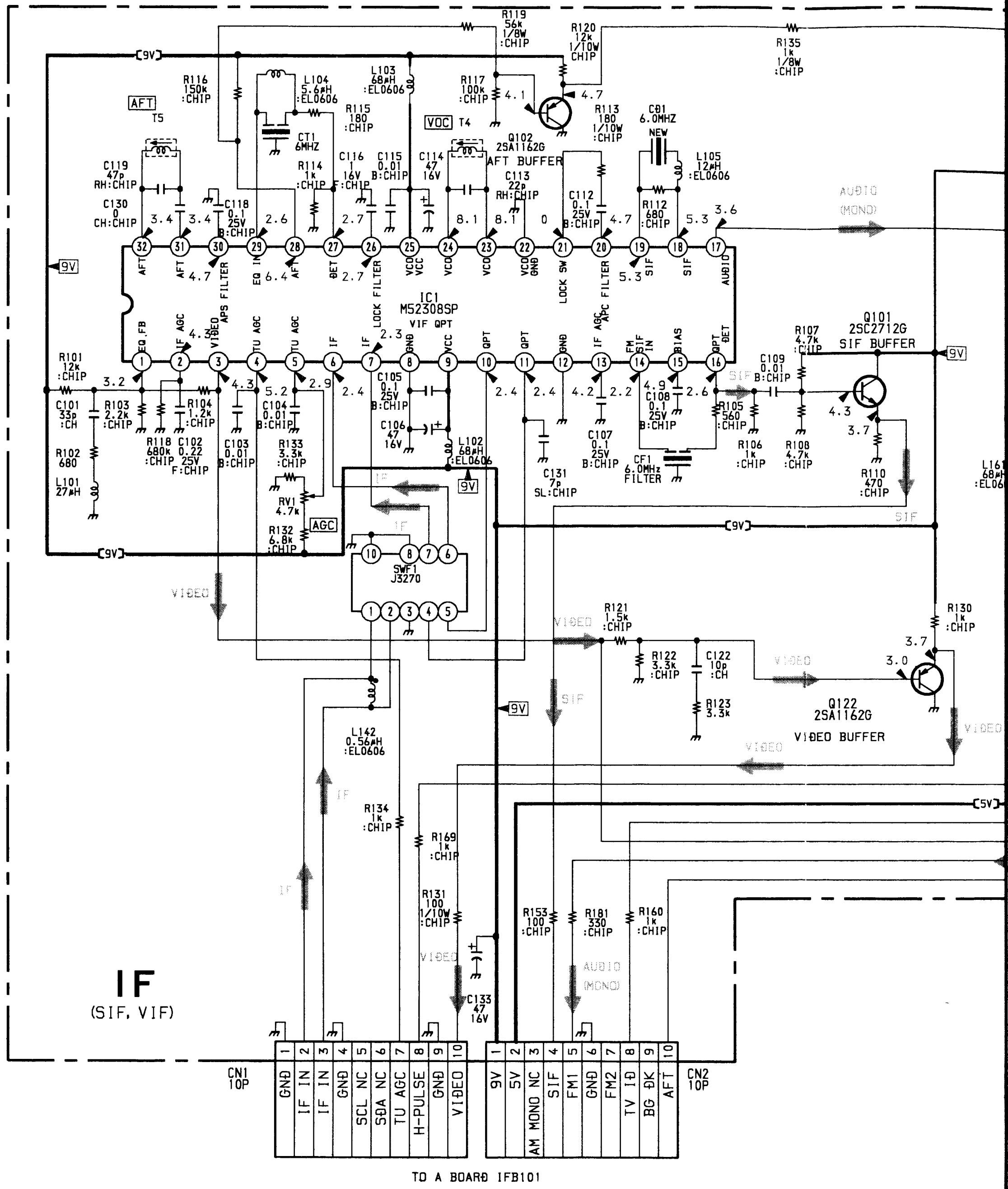

(170527711)
1-642-991-11
SONY
CAD
V M
CN1830
CN1819
MUTE
12V
A
B
C
D
E

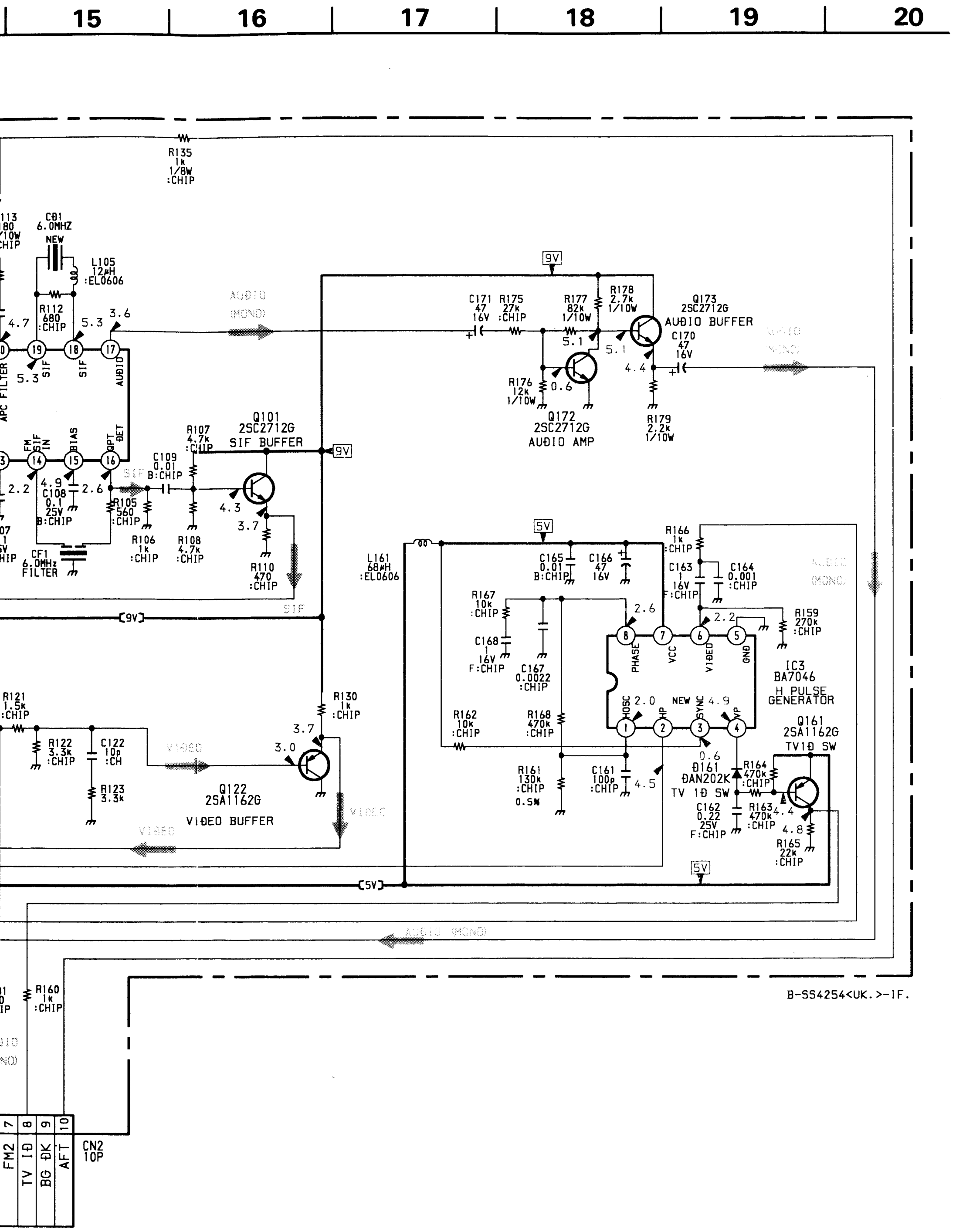
Schematic diagrams
IF boards ➡

IFH389 (AEP, Italian, Spanish Model)


IC1 M52308SP VIF QPT
IC2 TDA9820 FM SIF
IC3 PCF8574 H PULSE GENERATOR
Q101 2SC2412K-T146-R SIF BUFFER
Q102 2SA1037K-T146-R AFT BUFFER
Q121 2SC2412K-T146-R VIDEO EQ
Q122 2SA1037K-T146-R VIDEO BUFFER
Q161 2SA1037K-T146-R TV1D SW
D161 DAN202K TV1D SW
Q170 2SC2412K-T146-R AUDIO AMP
Q171 2SC2412K AUDIO BUFFER
Q172 2SC2412K-T146-R AUDIO AMP
Q173 2SC2412K-T146-R AUDIO BUFFER
SWF1 G3965M
CF2 5.74M
CF3 5.5M
CF4 6.5M
CT1 5.5/5.74MHZ
AFT T5
VOC T4
AGC
IF
(VIF, SIF)
CN1 10P
GND IF IN IF IN GND SCL NC SDA NC TU AGC H-PULSE GND VIDEO
CN2 10P
9V 5V AM MONO NC SIF FM1 GND FM2 TV ID BG DK AFT
TO A BOARD IFB101
B-SS4254<AEP>-IF.

IFH385 (UK Model)

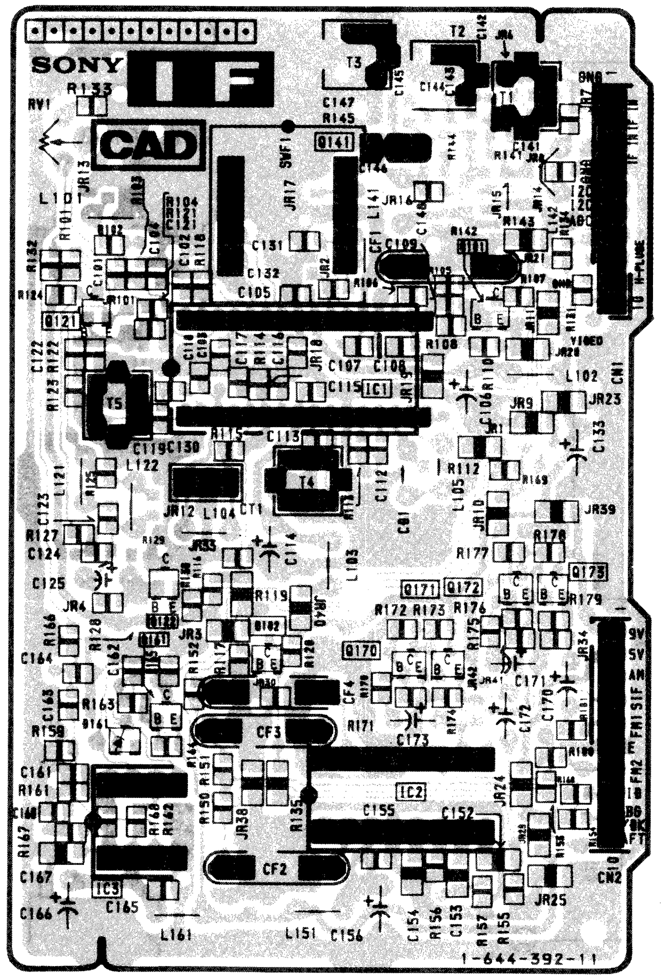

IC1 M52308SP VIF QPT
Q101 2SC2712G SIF BUFFER
Q102 2SA1162G AFT BUFFER
Q122 2SA1162G VIDEO BUFFER
SWF1 J3270
CF1 6.0MHz FILTER
CT1 6MHZ
AFT T5
VOC T4
AGC
AUDIO (MONO)
IF
(SIF, VIF)
CN1 10P
GND IF IN IF IN GND SCL NC SDA NC TU AGC H-PULSE GND VIDEO
CN2 10P
9V 5V AM MONO NC SIF FM1 GND FM2 TV ID BG DK AFT
TO A BOARD IFB101


15
16
17
18
19
20
R135 1k 1/8W :CHIP
CB1 6.0MHZ
L105 12μH :EL0606
AUDIO (MONO)
9V
C171 47 16V
R175 27k :CHIP
R177 82k 1/10W
R178 2.7k 1/10W
Q173 2SC2712G AUDIO BUFFER
C170 47 16V
R176 12k 1/10W
Q172 2SC2712G AUDIO AMP
R179 2.2k 1/10W
Q101 2SC2712G SIF BUFFER
R107 4.7k :CHIP
C109 0.01 B:CHIP
R105 560 :CHIP
R106 1k :CHIP
R108 4.7k :CHIP
R110 470 :CHIP
CF1 6.0MHz FILTER
L161 68μH :EL0606
5V
R166 1k :CHIP
C165 0.01 B:CHIP
C166 47 16V
C163 1 16V F:CHIP
C164 0.001 :CHIP
R167 10k :CHIP
C168 1 16V F:CHIP
C167 0.0022 :CHIP
R159 270k :CHIP
IC3 BA7046 H PULSE GENERATOR
PHASE
VCC
VIDEO
GND
OSC
HP
SYNC
VP
R162 10k :CHIP
R168 470k :CHIP
Q161 2SA1162G TV1D SW
R161 130k :CHIP 0.5W
C161 100p :CHIP
D161 DAN202K TV 1D SW
R164 470k :CHIP
C162 0.22 25V F:CHIP
R163 470k :CHIP
R165 22k :CHIP
R130 1k :CHIP
R121 1.5k :CHIP
R122 3.3k :CHIP
C122 10p :CH
R123 3.3k
Q122 2SA1162G VIDEO BUFFER
VIDEO
SIF
R160 1k :CHIP
FM2
TV 1D
BG DK
AFT
CN2 10P
B-SS4254<UK.>-IF.

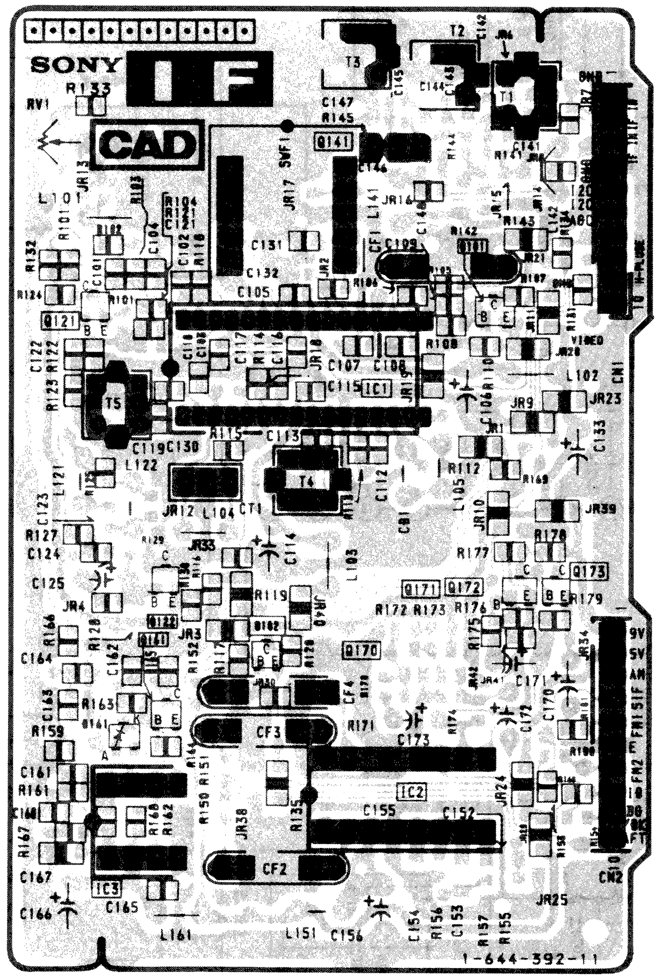
IF

[VIF, SIF]

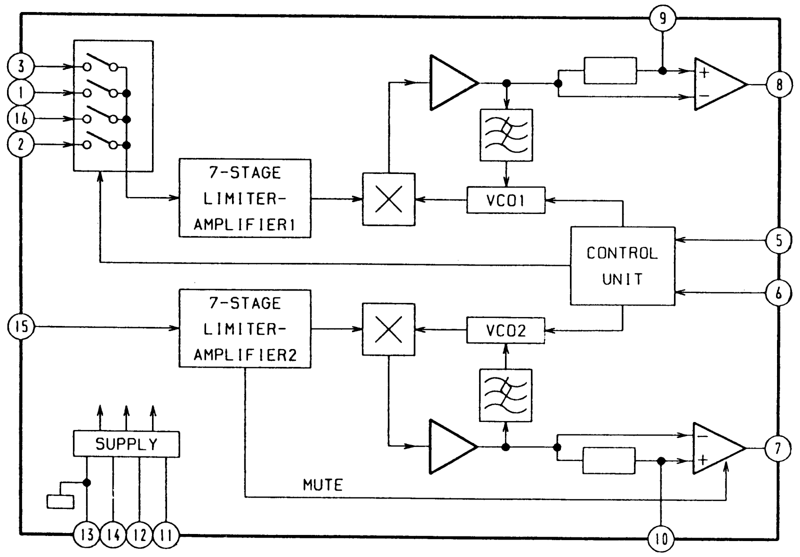
– IF BOARD – (AEP, Italian, Spanish Model)


SONY
IF
CAD
1-644-392-11

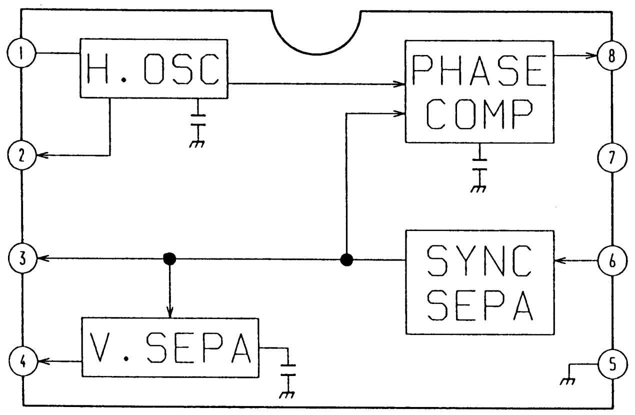
– IF BOARD – (UK Model)


SONY
IF
CAD
1-644-392-11

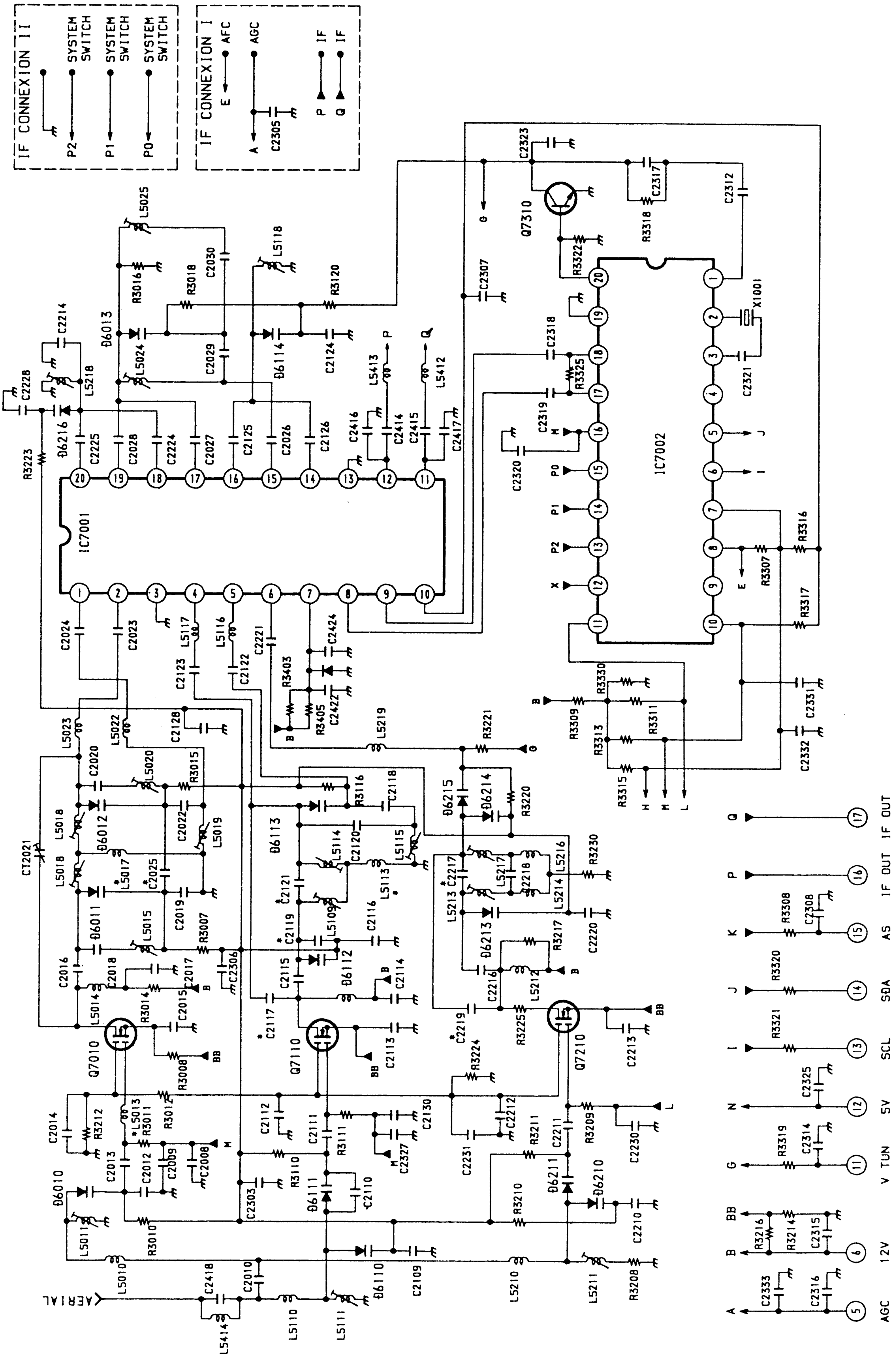
• IF BOARD IC2 TDA9820 (AEP, Italian, Spanish Model)


7-STAGE LIMITER-AMPLIFIER1
VCO1
CONTROL UNIT
7-STAGE LIMITER-AMPLIFIER2
VCO2
SUPPLY
MUTE

• IF BOARD IC3 BA7046 (AEP, Italian, Spanish Model)


H. OSC
PHASE COMP
SYNC SEPA
V. SEPA

5-4. SCHEMATIC DIAGRAM OF TUNER
A BOARD TU101 UV916H

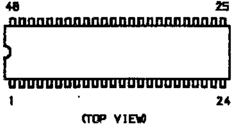

IF CONNEXION II
P2
P1
P0
SYSTEM SWITCH
SYSTEM SWITCH
SYSTEM SWITCH
IF CONNEXION I
A
E
AFC
AGC
C2305
P
Q
IF
IF
IC7001
IC7002
Q7010
Q7110
Q7210
Q7310
X1001
AERIAL
AGC
12V
V TUN
5V
SCL
SDA
AS
IF OUT
IF OUT

Schematic diagrams

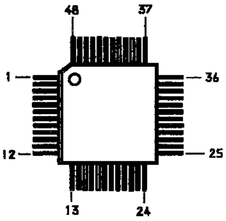
← IF boards

5-5. SEMICONDUCTORS

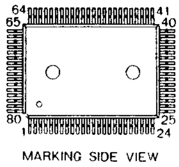
CXA1545AS
CXA1587S


48
25
1
24
(TOP VIEW)

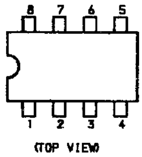
CXD2018Q


48
37
1
36
12
25
13
24

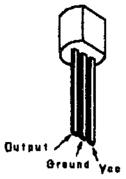
CXD2024Q


64
41
65
40
80
25
1
24
MARKING SIDE VIEW

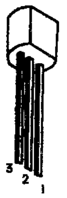
LM358D
LM393P
LM358P
TDA2822M
TDA4605-3
TEA2114
μPC358C
μPC393C
X24C16P


8 7 6 5
1 2 3 4
(TOP VIEW)

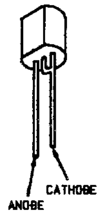
MC78L08ACPRP
MC78L12ACPRP


Output
Ground
Vcc

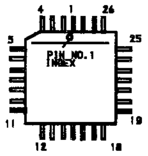
NJM78L05A
NJM78L05F
NJM78M09FA



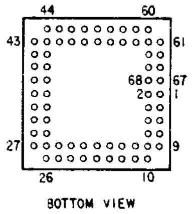
RC7809FA


ANODE
CATHODE

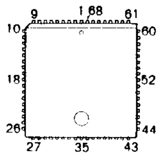
SBX1610-11


4
1
26
5
25
PIN NO.1 INDEX
11
19
12
18

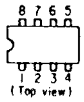
SDA30C162-GEG


44
60
43
61
68
67
2
1
27
9
26
10
BOTTOM VIEW

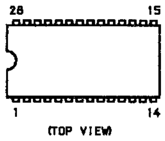
SDA5273-B14-GEG


9
1
68
61
10
60
18
52
26
44
27
35
43

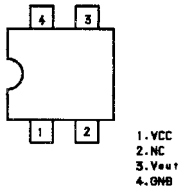
SDA9085


8 7 6 5
1 2 3 4
(Top view)

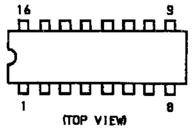
SDA91872X-GEG
SDA91883X-GEG
TDA6612


28
15
1
14
(TOP VIEW)

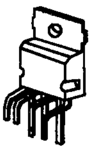
SFH617G-1


4
3
1
2
1.VCC
2.NC
3.Vout
4.GND

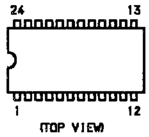
SN74LS221N
TDA466A/V2
TDA9160/N2


16
9
1
8
(TOP VIEW)

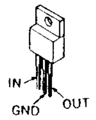
TDA2052
TDA8138
TDA8179S



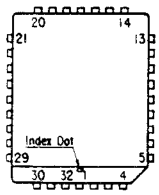
TDA8443B
TDA9145/N1


24
13
1
12
(TOP VIEW)

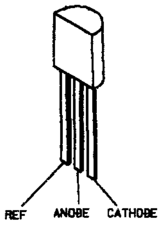
TEA7605



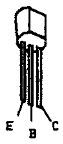
TMS27PC010A-15FML


20
14
21
13
Index Dot
29
5
30
32
1
4

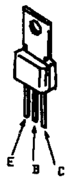
TL431CLP


REF
ANODE
CATHODE

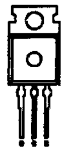
BF199



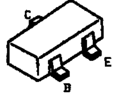
BF871



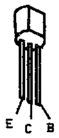
BUZ91A-E3155



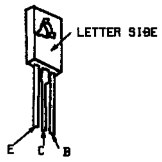
DTA124EK
DTA144EK
DTA144TK
DTC114EK
DTC124EK
DTC144EK
2SA1037K-R
2SA1162-G
2SC1623-L5L6
2SC2412K-T-146-R
2SC2412K-T-146-QR
2SC2413KQ



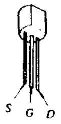
JA101-Q
JC501-Q-AMMO
2SA733-K
2SA1091-O
2SC1890A-D
2SC2551-O



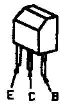
2SA1220A-K
2SB772-Q
2SC2688-LK


LETTER SIDE
E
C
B

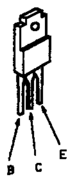
2SA1837



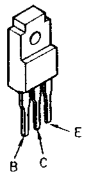
2SB734-34
2SC2958
2SD774-34



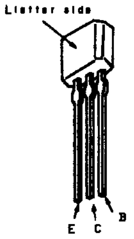
2SB1186A
2SC3298B-Y
2SD1763A



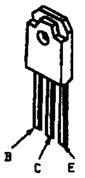
2SC4793



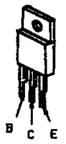
2SC2785-HFE


Letter side
E
C
B

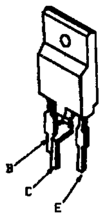
2SC4927-01



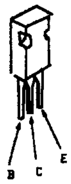
2SD798A-P
2SD2012



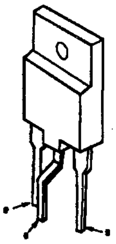
2SD2061



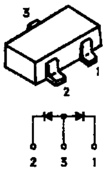
2SD2096-EF



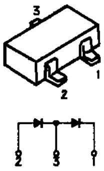
2SK1916-53-F50



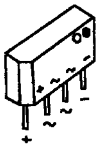
DAN202K
DAP202K
1S2836



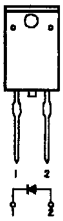
DA204K



1SS226



D5L60



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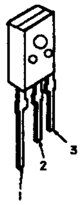

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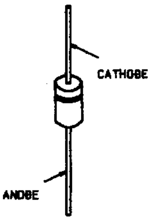
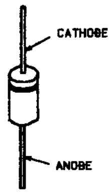
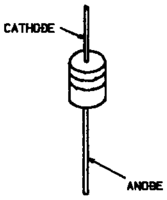
RGP02-20EL-6394
RU30ALFS1
RU3AM


CATHODE
ANODE

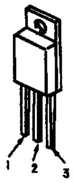
EL1Z
ERB44-06
GP08D
RGP10GPKG23
RGP15GPKG23
R2K-V1
1N4148A-T265


CATHODE
ANODE

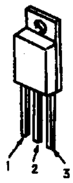
ERA85-009
MTZJ-T-77-12B
MTZJ-T-77-13C
MTZJ-T-77-15A
MTZJ-T-77-2.2A
MTZJ-T-77-3.6A
MTZJ-T-77-30B
MTZJ-T-77-33C
MTZJ-T-77-39C
MTZJ-T-77-5.6A
MTZJ-T-77-5.6B
MTZJ-T-77-7.5A
MTZJ-T-77-9.1
MTZN-1013
RD12ES-B2
RD5.6ES-B1
RD5.6ES-B2
RD6.2ES-B2
RD7.5ES-B2


CATHODE
ANODE

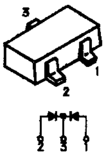
ESAB92-02



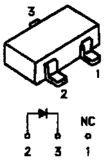
ESAC92M-02



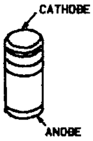
MA152WK



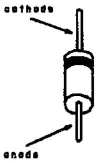
MA3030-H (TK)
MA3039H-TX
MA3047L-TX



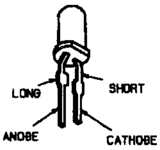
MA3051L-TX


CATHODE
ANODE

RGP02-17EL-6433


cathode
anode

LD201VR


LONG
SHORT
ANODE
CATHODE

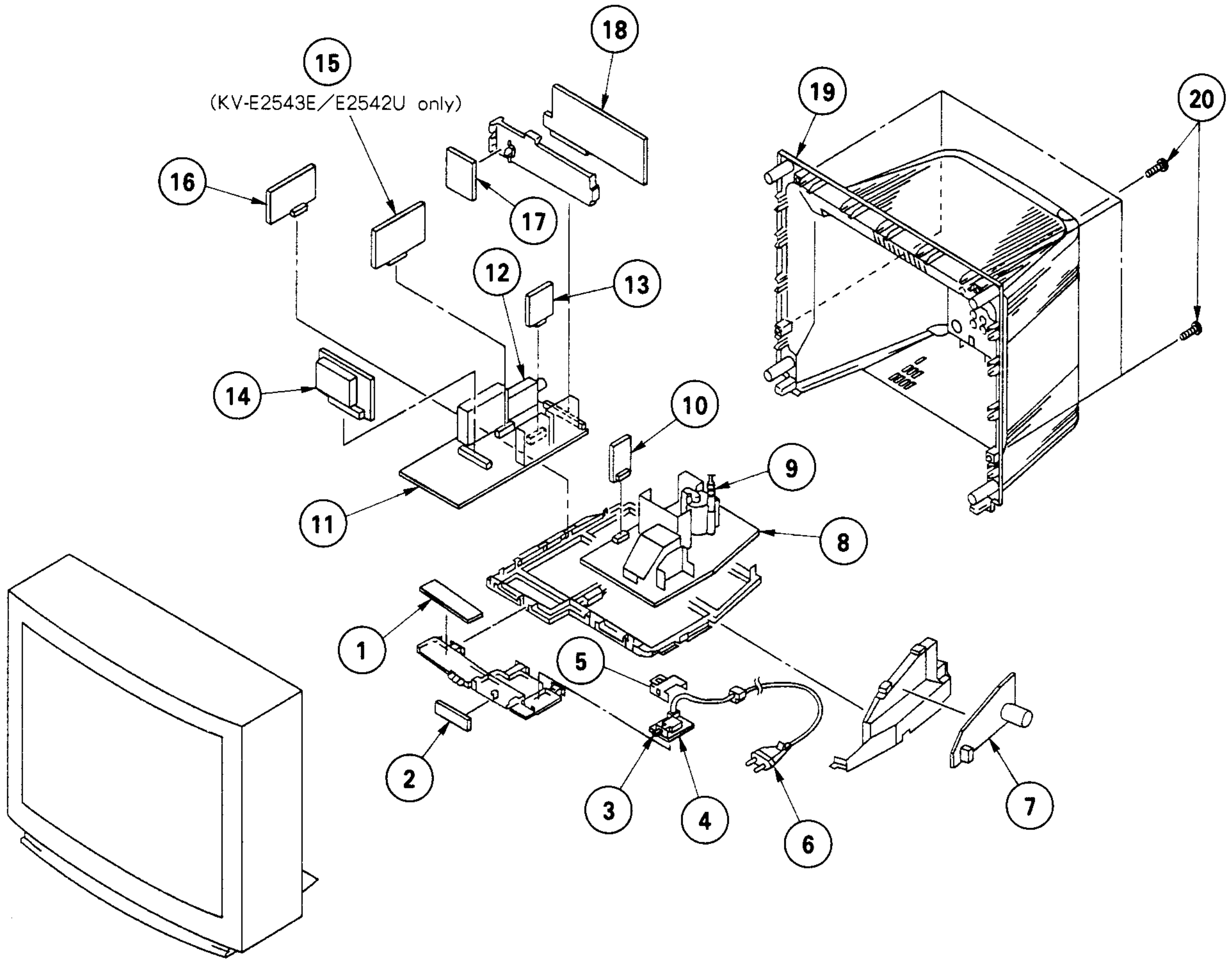
SECTION 6
EXPLODED VIEWS

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

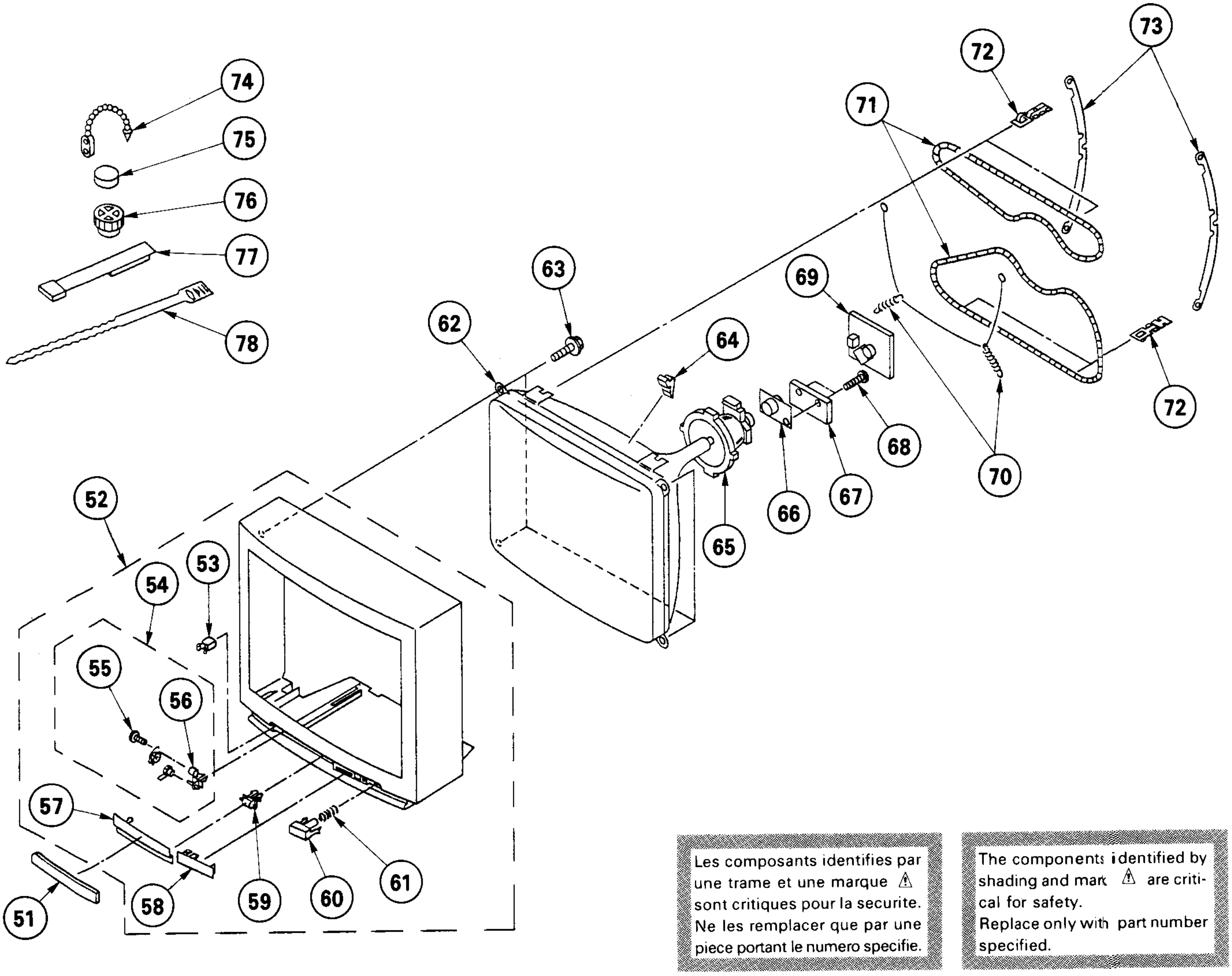
Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

6-1. CHASSIS



REF.NO.	PART NO.	DESCRIPTION	REMARK
1	*1-648-314-11	H1 BOARD	
2	*1-648-475-11	H2 BOARD	
3	⚠1-571-433-12	SWITCH, PUSH (AC POWER)	
4	*A-1624-019-A	F1 BOARD, COMPLETE	
5	4-202-376-01	COVER, POWER SWITCH	
6	⚠1-590-460-11	CORD, POWER(WITH CONNECTOR) 7.0A/250V (KV-E2541B,E2543E)	
	⚠1-590-762-11	CORD, POWER(WITH PLUG) 2.5A/250V (KV-E2542U)	
	⚠1-751-680-11	CORD, POWER(WITH NOISE FILTER) 2.5A/250V (KV-E2541A,E2541D)	
7	*A-1624-018-A	F2 BOARD, COMPLETE	
8	*A-1642-096-A	D BOARD, COMPLETE	
9	⚠1-453-118-11	TRANSFORMER ASSY, FLYBACK (NX-2600A2)	
10	*A-1640-107-A	D5 BOARD, COMPLETE	
11	*A-1632-147-A	A BOARD, COMPLETE (KV-E2541A,KV-E2541D)	
	*A-1632-150-A	A BOARD, COMPLETE (KV-E2541B)	
	*A-1632-152-A	A BOARD, COMPLETE (KV-E2542U)	
	*A-1632-153-A	A BOARD, COMPLETE (KV-E2543E)	
12	⚠1-693-184-11	TUNER (U944C) (KV-E2542U)	
	⚠1-693-185-11	TUNER (UV916H) (KV-E2541A,E2541D,E2543E)	
	⚠8-598-045-00	SONY ET TUNER (BTP-EC411) (KV-E2541B)	
13	*A-1620-049-A	B BOARD, COMPLETE	
14	*A-1635-006-A	M1 BOARD, COMPLETE	
15	*A-1630-168-A	A1 BOARD, COMPLETE (KV-E2542U)	
	*A-1630-170-A	A1 BOARD, COMPLETE (KV-E2543E)	
16	*A-1622-006-A	P1 BOARD, COMPLETE	
17	*A-1649-007-A	K BOARD, COMPLETE	
18	*A-1651-052-A	J BOARD, COMPLETE	
19	4-202-428-01	COVER, REAR	
20	4-039-358-11	SCREW (4X16), (+) BV TAPPING	

6-2. PICTURE TUBE

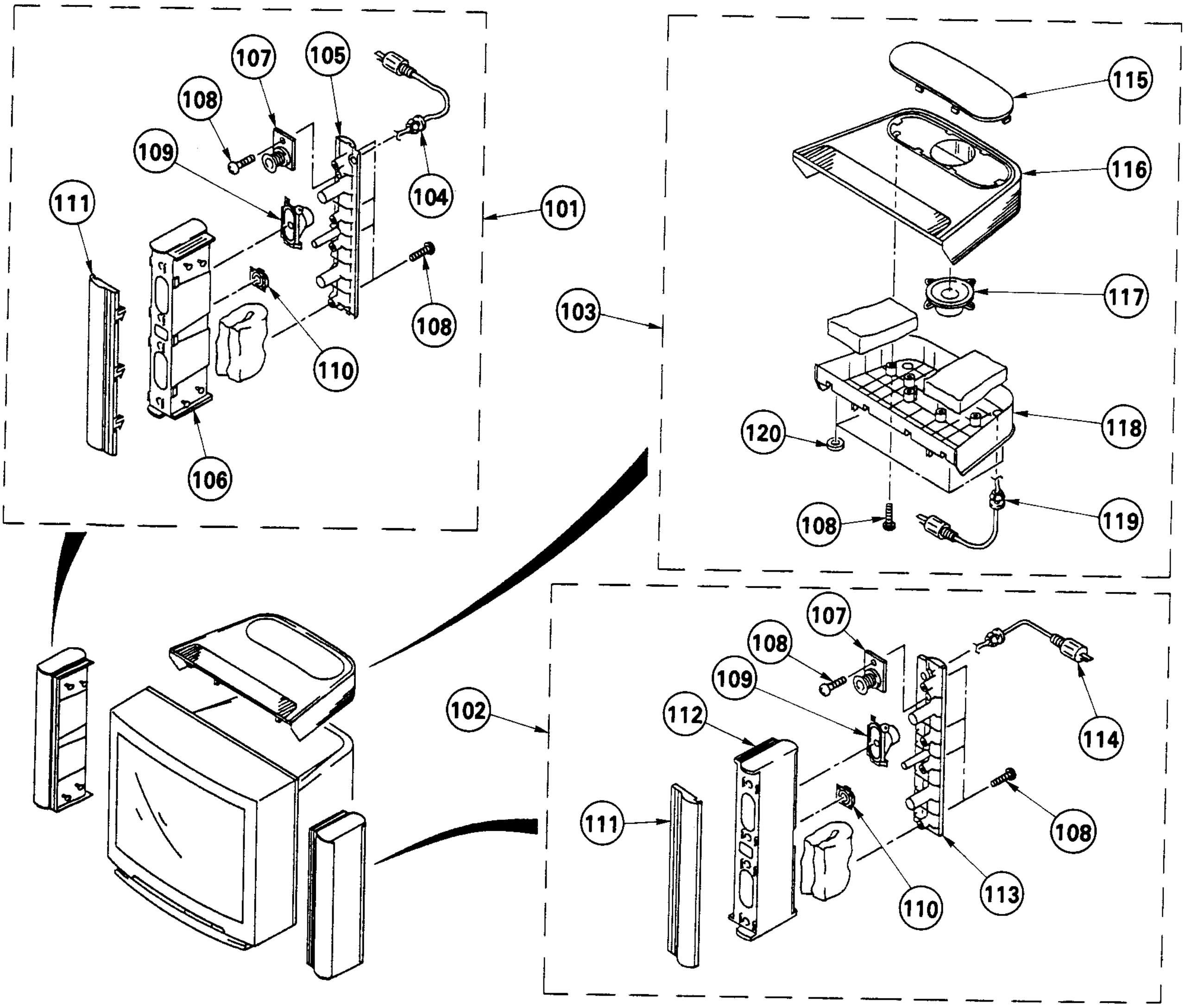


Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
51	4-202-424-01	COVER, DOOR (KV-E2541A,E2541B,E2541D)	
	4-202-424-11	COVER, DOOR (KV-E2542U,E2543E)	
52	X-4200-133-1	CABINET ASSY (WITH BEZEL ASSY)	
53	4-392-036-01	CATCHER, PUSH	
54	X-4031-244-2	DAMPER ASSY	
55	4-033-184-01	SCREW, SPECIAL	
56	4-041-017-01	SHAFT (MAIN), DAMPER DOOR	
57	4-202-422-01	DOOR, CONTROL	
58	4-202-421-01	WINDOW, ORNAMENTAL	
59	3-703-035-12	SHAFT, LID	
60	4-202-420-01	BUTTON, POWER	
61	4-329-112-51	SPRING	
62	⚠ 8-733-232-05	PICTURE TUBE (M60KWL10X)	
63	4-036-188-01	SCREW (M), PT	
64	3-704-495-01	SPACER, DY	
65	⚠ 1-451-404-21	DEFRECTION YOKE (Y25GXA)	
66	⚠ 1-452-509-42	NECK ASSY, PICTURE TUBE (NA-308)	
67	*A-1644-028-A	VM BOARD, COMPLETE	
68	4-039-357-01	SCREW (3X8), (+) BV TAPPING	
69	*A-1638-040-A	C BOARD, COMPLETE	
70	4-200-433-01	SPRING, EXTENSION	
71	⚠ 1-406-806-21	COIL, DEMAGNETIZATION	
72	4-202-463-01	CLIP, DGC (25")	
73	4-202-416-01	BAND, DGC	
74	4-308-870-00	CLIP, LEAD WIRE	
75	1-452-032-00	MAGNET, DISK; 10MM ϕ	
76	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	
77	X-4387-214-1	PERMALLOY ASSY, CORRECTION	
78	3-701-007-00	BAND, BINDING	

6-3. SPEAKER


107
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REF.NO.	PART NO.	DESCRIPTION	REMARK
101	A-1678-062-A	BOX COMPLETE ASSY (L)	104~111
102	A-1678-063-A	BOX COMPLETE ASSY (R)	107~114
103	A-1678-071-A	BOX COMPLETE ASSY WOOFER	108,115~120
104	1-696-406-11	CABLE, SPEAKER (WITH GROMMET)	
105	4-202-433-01	COVER, SPEAKER (L)	
106	4-202-432-11	BOX, SPEAKER (L)	
107	1-239-728-11	NETWORK, DIVIDING	
108	4-039-358-01	SCREW (4X16), (+) BV TAPPING	
109	1-504-333-11	SPEAKER (5X11CM)	
110	1-504-398-11	SPEAKER	
111	4-202-426-01	SPEAKER GRILLE, SIDE	
112	4-202-432-01	BOX, SPEAKER (R)	
113	4-202-434-01	COVER, SPEAKER (R)	
114	1-696-407-11	CABLE, SPEAKER (WITH GROMMET)	
115	4-202-425-01	SPEAKER GRILLE, WOOFER	
116	4-202-412-01	WOOFER, TOP	
117	1-544-767-11	SPEAKER (13CM)	
118	4-202-411-01	WOOFER, BOTTOM	
119	1-751-616-11	CABLE, SPEAKER (WITH GROMMET)	
120	4-200-630-01	CUSHION, FOOT	

SECTION 7
ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : mH, UH : μH

REF.NO.	PART NO.	DESCRIPTION	REMARK
	*A-1620-049-A	B BOARD, COMPLETE *****************	
		<CAPACITOR>	
C1301	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
C1302	1-126-101-11	ELECT 100MF 20%	16V
C1303	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
C1304	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
C1305	1-163-105-00	CERAMIC CHIP 33PF 5%	50V
C1306	1-163-109-00	CERAMIC CHIP 47PF 5%	50V
C1307	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
C1308	1-163-101-00	CERAMIC CHIP 22PF 5%	50V
C1309	1-163-101-00	CERAMIC CHIP 22PF 5%	50V
C1310	1-126-101-11	ELECT 100MF 20%	16V
C1311	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C1312	1-163-133-00	CERAMIC CHIP 470PF 5%	50V
C1313	1-124-917-11	ELECT 33MF 20%	50V
C1314	1-126-101-11	ELECT 100MF 20%	16V
C1315	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
C1316	1-126-101-11	ELECT 100MF 20%	16V
C1317	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
C1318	1-124-910-11	ELECT 47MF 20%	50V
C1319	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
C1320	1-163-141-00	CERAMIC CHIP 0.001MF 5%	50V
C1321	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
C1322	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
C1323	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
C1324	1-126-101-11	ELECT 100MF 20%	16V
C1325	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
C1326	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
C1327	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
C1328	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
C1329	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C1330	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C1331	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
C1332	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
C1333	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
		<CONNECTOR>	
CN0302	*1-573-299-11	CONNECTOR, BOARD TO BOARD 10P	
		<DIODE>	
D1301	8-719-400-18	DIODE MA152WK	
		<FILTER>	
FL1301	1-239-550-41	FILTER, LOW PASS	
FL1302	1-239-550-41	FILTER, LOW PASS	

REF.NO.	PART NO.	DESCRIPTION	REMARK
FL1303	1-239-550-41	FILTER, LOW PASS	
FL1304	1-236-164-11	ENCAPSULATED COMPONENT	
		<IC>	
IC1301	8-752-357-88	IC CXD2024Q-TL	
		<COIL>	
L1301	1-408-405-00	INDUCTOR 4.7UH	
L1302	1-408-403-00	INDUCTOR 3.3UH	
L1303	1-408-405-00	INDUCTOR 4.7UH	
L1304	1-408-405-00	INDUCTOR 4.7UH	
		<TRANSISTOR>	
Q1301	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1302	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1303	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1304	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1305	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1306	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1307	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1308	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1310	8-729-216-22	TRANSISTOR 2SA1162-G	
		<RESISTOR>	
R1301	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W
R1302	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R1303	1-216-043-00	METAL GLAZE 560 5%	1/10W
R1304	1-216-043-00	METAL GLAZE 560 5%	1/10W
R1305	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
R1306	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1307	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
R1308	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
R1309	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W
R1310	1-216-295-00	METAL GLAZE 0 5%	1/10W
R1311	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1312	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R1313	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R1314	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R1315	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1316	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W
R1317	1-216-083-00	METAL GLAZE 27K 5%	1/10W
R1318	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W
R1319	1-216-043-00	METAL GLAZE 560 5%	1/10W
R1320	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
R1321	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1322	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1324	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W
R1325	1-216-043-00	METAL GLAZE 560 5%	1/10W

B **P1**

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1326	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R1327	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1330	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R1331	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1332	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W	
R1333	1-216-666-11	METAL CHIP	4.3K	0.50%	1/10W	
R1334	1-216-635-11	METAL CHIP	220	0.50%	1/10W	
R1335	1-216-637-11	METAL CHIP	270	0.50%	1/10W	
R1336	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W	
R1337	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W	
R1338	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W	
R1339	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R1342	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R1343	1-216-035-00	METAL GLAZE	270	5%	1/10W	

****

*A-1622-006-A P1 BOARD, COMPLETE

****

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C1401	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1402	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1403	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	
C1404	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V	
C1405	1-163-097-00	CERAMIC CHIP	15PF	5%	50V	
C1406	1-163-097-00	CERAMIC CHIP	15PF	5%	50V	
C1407	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1408	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V	
C1409	1-124-903-11	ELECT	1MF	20%	50V	
C1410	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1411	1-164-005-11	CERAMIC CHIP	0.47MF		25V	
C1412	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1414	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	
C1416	1-163-129-00	CERAMIC CHIP	330PF	5%	50V	
C1417	1-163-129-00	CERAMIC CHIP	330PF	5%	50V	
C1419	1-164-005-11	CERAMIC CHIP	0.47MF		25V	
C1420	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1421	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1422	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1423	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1424	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C1425	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C1426	1-163-124-00	CERAMIC CHIP	200PF	5%	50V	
C1427	1-124-916-11	ELECT	22MF	20%	50V	
C1428	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1430	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1431	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1432	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1433	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1434	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1435	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1437	1-164-343-11	CERAMIC CHIP	0.056MF	10%	25V	
C1438	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	
C1439	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	
C1440	1-163-245-11	CERAMIC CHIP	56PF	5%	50V	
C1441	1-164-005-11	CERAMIC CHIP	0.47MF		25V	
C1442	1-164-005-11	CERAMIC CHIP	0.47MF		25V	
C1443	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C1444	1-164-005-11	CERAMIC CHIP	0.47MF		25V	
C1445	1-164-005-11	CERAMIC CHIP	0.47MF		25V	
C1446	1-164-005-11	CERAMIC CHIP	0.47MF		25V	
C1447	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1448	1-164-222-11	CERAMIC CHIP	0.22MF		25V	
C1449	1-163-257-11	CERAMIC CHIP	180PF	5%	50V	
C1450	1-164-005-11	CERAMIC CHIP	0.47MF		25V	
C1451	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	
C1452	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1453	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1454	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1455	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C1456	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C1457	1-164-005-11	CERAMIC CHIP	0.47MF		25V	
C1458	1-164-505-11	CERAMIC CHIP	2.2MF		16V	
C1459	1-164-505-11	CERAMIC CHIP	2.2MF		16V	
C1460	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1461	1-164-005-11	CERAMIC CHIP	0.47MF		25V	
C1462	1-164-005-11	CERAMIC CHIP	0.47MF		25V	
C1463	1-126-101-11	ELECT	100MF	20%	16V	
C1464	1-126-101-11	ELECT	100MF	20%	16V	
C1465	1-126-101-11	ELECT	100MF	20%	16V	
C1466	1-126-101-11	ELECT	100MF	20%	16V	
C1467	1-126-101-11	ELECT	100MF	20%	16V	
C1468	1-164-505-11	CERAMIC CHIP	2.2MF		16V	
C1469	1-164-505-11	CERAMIC CHIP	2.2MF		16V	
C1471	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1472	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1473	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1481	1-164-005-11	CERAMIC CHIP	0.47MF		25V	
C1482	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	
C1491	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION
CN1514	*1-568-879-11	PIN, CONNECTOR 4P
CN1515	*1-564-516-11	PLUG, CONNECTOR 13P
CN1516	*1-568-879-11	PIN, CONNECTOR 4P
CN1538	*1-573-299-11	CONNECTOR, BOARD TO BOARD 10P

<DIODE>

REF.NO.	PART NO.	DESCRIPTION
D1401	8-719-401-41	DIODE MA3051L-TX

<FILTER>

REF.NO.	PART NO.	DESCRIPTION
FL1403	1-236-071-11	ENCAPSULATED COMPONENT
FL1404	1-236-071-11	ENCAPSULATED COMPONENT
FL1405	1-236-071-11	ENCAPSULATED COMPONENT
FL1406	1-236-071-11	ENCAPSULATED COMPONENT
FL1407	1-236-071-11	ENCAPSULATED COMPONENT
FL1408	1-236-071-11	ENCAPSULATED COMPONENT

<IC>

REF.NO.	PART NO.	DESCRIPTION
IC1401	8-759-073-16	IC TDA9160/N2
IC1402	8-759-086-97	IC TDA4661T/V2
IC1403	8-759-183-56	IC SDA9187-GEG
IC1404	8-759-183-57	IC SDA9188-GEG
IC1405	8-759-046-27	IC SDA9086-3
IC1406	8-759-183-36	IC TDA8443B
IC1410	8-759-037-45	IC MC78L08ACPRP
IC1411	8-759-708-05	IC NJM78L05A

<COIL>

REF.NO.	PART NO.	DESCRIPTION	
L1401	1-408-418-00	INDUCTOR	56UH
L1405	1-408-407-00	INDUCTOR	6.8UH
L1406	1-408-407-00	INDUCTOR	6.8UH

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q1401	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1402	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1403	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1404	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1405	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1406	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1407	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1408	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1409	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1413	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1414	8-729-900-53	TRANSISTOR DTC114EK	
Q1416	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1417	8-729-900-53	TRANSISTOR DTC114EK	
Q1419	8-729-900-53	TRANSISTOR DTC114EK	
Q1421	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1422	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1425	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1426	8-729-900-53	TRANSISTOR DTC114EK	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
JR1401	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R1401	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R1402	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1403	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1404	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1405	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1406	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R1407	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1408	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1410	1-216-029-00	METAL GLAZE	150	5%	1/10W	
R1411	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1412	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1413	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1414	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R1415	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R1416	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1417	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1418	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1419	1-216-027-00	METAL GLAZE	120	5%	1/10W	
R1421	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1422	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1424	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1425	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1426	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1427	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1429	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R1430	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1431	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1434	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R1435	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R1436	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R1437	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1438	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R1439	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1441	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R1442	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R1443	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R1444	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1445	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R1446	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R1449	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1450	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1453	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1454	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1455	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1456	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1458	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R1462	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1463	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1468	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1469	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1471	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R1481	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R1483	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R1484	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1485	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1486	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1487	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1493	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R1494	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1495	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R1496	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1497	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R1498	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1499	1-216-049-00	METAL GLAZE	1K	5%	1/10W	

<CRYSTAL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
X1401	1-567-505-11	OSCILLATOR, CRYSTAL	
X1402	1-567-504-11	OSCILLATOR, CRYSTAL	

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*A-1624-018-A F2 BOARD, COMPLETE
****

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C661	⚠ 1-136-519-12	FILM	0.47MF	20%	300V	
C662	⚠ 1-136-518-12	FILM	0.33MF	20%	300V	
C664	⚠ 1-164-246-61	CERAMIC	0.0022MF	20%	400V	
C666	1-124-920-11	ELECT	330MF	20%	50V	
C667	1-126-233-11	ELECT	22MF	20%	50V	
C672	⚠ 1-161-964-61	CERAMIC	0.0047MF		250V	
C673	⚠ 1-161-964-61	CERAMIC	0.0047MF		250V	
C674	1-125-318-00	ELECT(BLOCK)	220MF	20%	400V	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN0005	1-508-765-00	PIN, CONNECTOR (5MM PITCH) P	
CN0007	1-508-786-00	PIN, CONNECTOR (5MM PITCH) P	
CN0924	*1-568-878-51	PIN, CONNECTOR 3P	
CN0925	*1-695-294-11	PIN, CONNECTOR (PC BOARD) 6P	
CN0929	1-508-784-00	PIN, CONNECTOR (5MM PITCH) P	
CN0931	⚠*1-691-291-11	PIN, CONNECTOR (PC BOARD) P	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D661	8-719-911-19	DIODE 1SS119	
D663	8-719-510-63	DIODE D4SB60L-F	
D664	8-719-109-89	DIODE RD5.6ESB2	

<TRANSFORMER>

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
LF661⚠	1-424-688-11	COIL, LINE FILTER				
LF662⚠	1-424-391-11	TRANSFORMER, LINE FILTER				
LF663⚠	1-421-862-11	LFT				

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION
Q661	8-729-120-28	TRANSISTOR 2SC1623-L5L6

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R663 ⚠	1-244-945-91	CARBON	1M	5%	1/2W	
R664 ⚠	1-205-949-11	WIREWOUND	1.8	5%	10W	F
R665 ⚠	1-218-265-91	METAL GLAZE	8.2M	5%	1W	
R666	1-249-405-11	CARBON	100	5%	1/4W	F
R667	1-249-430-11	CARBON	12K	5%	1/4W	
R668	1-249-436-11	CARBON	39K	5%	1/4W	
R669 ⚠	1-205-949-11	WIREWOUND	1.8	5%	10W	F
R671	1-249-417-11	CARBON	1K	5%	1/4W	F

<RELAY>

REF.NO.	PART NO.	DESCRIPTION
RY661⚠	1-515-720-31	RELAY

<THERMISTOR>

REF.NO.	PART NO.	DESCRIPTION
THP661⚠	1-809-827-11	THERMISTOR, POSITIVE

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*A-1624-019-A F1 BOARD, COMPLETE
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<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION
CN0003⚠	*1-580-844-11	PIN, CONNECTOR (POWER)
CN0831⚠	*1-695-292-11	PIN, CONNECTOR (POWER)

<FUSE>

REF.NO.	PART NO.	DESCRIPTION
F651 ⚠	1-576-232-21	FUSE (H.B.C.) 5A/250V
	1-533-230-11	HOLDER, FUSE: F651

<SWITCH>

REF.NO.	PART NO.	DESCRIPTION
S651 ⚠	1-571-433-12	SWITCH, PUSH (AC POWER)

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*A-1630-168-A A1 BOARD, COMPLETE (KV-E2542U)
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*A-1630-170-A A1 BOARD, COMPLETE (KV-E2543E)
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<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C1101	1-126-101-11	ELECT	100MF	20%	16V	
C1102	1-126-101-11	ELECT	100MF	20%	16V	
C1103	1-163-077-00	CERAMIC CHIP	0.1MF		50V	
C1104	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V	
C1105	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V	
C1106	1-163-383-91	CERAMIC CHIP	180PF	5%	50V	
C1107	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C1108	1-163-059-00	CERAMIC CHIP	0.01MF		50V	
C1109	1-163-033-00	CERAMIC CHIP	0.022MF		50V	
C1110	1-164-336-11	CERAMIC CHIP	0.33MF		25V	
C1111	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C1112	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V	
C1113	1-124-477-11	ELECT	47MF	20%	16V	
C1114	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1115	1-124-477-11	ELECT	47MF	20%	16V	
C1116	1-106-228-00	MYLAR	0.22MF	10%	100V	
C1117	1-163-081-00	CERAMIC CHIP	0.22MF		25V	
C1118	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	
C1119	1-163-129-00	CERAMIC CHIP	330PF	5%	50V	
C1120	1-163-193-00	CERAMIC CHIP	330PF	5%	50V	
C1121	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	
C1122	1-163-081-00	CERAMIC CHIP	0.22MF		25V	
C1123	1-106-228-00	MYLAR	0.22MF	10%	100V	
C1124	1-124-477-11	ELECT	47MF	20%	16V	
C1125	1-124-477-11	ELECT	47MF	20%	16V	
C1126	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V	
C1127	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1128	1-124-477-11	ELECT	47MF	20%	16V	
C1129	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1130	1-163-205-00	CERAMIC CHIP	0.001MF	10%	50V	
C1131	1-163-059-00	CERAMIC CHIP	0.01MF		50V	
C1132	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1133	1-124-907-11	ELECT	10MF	20%	50V	
C1134	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C1135	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1136	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C1137	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1138	1-163-105-00	CERAMIC CHIP	33PF	5%	50V	
C1139	1-163-105-00	CERAMIC CHIP	33PF	5%	50V	
C1140	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C1141	1-163-205-00	CERAMIC CHIP	0.001MF	5%	50V	
C1142	1-163-057-00	CERAMIC CHIP	0.0068MF		50V	
C1143	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	
C1144	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	
C1145	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	
C1146	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1147	1-124-477-11	ELECT	47MF	20%	16V	
C1148	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V	
C1149	1-124-477-11	ELECT	47MF	20%	16V	
C1150	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1151	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1152	1-124-477-11	ELECT	47MF	20%	16V	
C1153	1-163-087-00	CERAMIC CHIP	4PF	0.25PF	50V	
C1154	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1155	1-124-477-11	ELECT	47MF	20%	16V	
C1156	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C1157	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C1158	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1159	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	(KV-E2542U)

<FILTER>

REF.NO.	PART NO.	DESCRIPTION
BP1101	1-236-238-12	FILTER, BAND PASS (KV-E2542U)
	1-239-047-11	FILTER, BAND PASS (KV-E2543E)
CF1101	1-409-333-00	TRAP, CERAMIC (6.0MHZ) (KV-E2542U)
CF1102	1-404-134-00	TRAP, CERAMIC (5.5MHZ) (KV-E2543E)

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION
CN0201	1-695-300-11	CONNECTOR, BOARD TO BOARD 20P

<DIODE>

A1 (KV-E2543E/E2542U)

REF.NO.	PART NO.	DESCRIPTION	REMARK
D1101	8-719-104-34	DIODE 1S2836	
D1102	8-719-027-70	DIODE 1SV217-TPH3	
D1103	8-719-820-71	DIODE 1SV214	

<FERRITE BEAD>

REF.NO.	PART NO.	DESCRIPTION	REMARK
FB1101	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB1102	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB1103	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB1104	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB1105	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC1101	8-759-511-88	IC TDA8732	
IC1102	8-759-184-28	IC SAA7282-ZP	

<COIL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
L1101	1-408-405-00	INDUCTOR 4.7UH	
L1102	1-408-405-00	INDUCTOR 4.7UH	
L1103	1-410-119-11	INDUCTOR 1MMH	
L1104	1-410-119-11	INDUCTOR 1MMH	
L1105	1-408-605-21	INDUCTOR 1MMH	(KV-E2542U)

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q1101	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1102	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1103	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1104	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1105	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1106	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1107	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1108	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
JR1101	1-216-296-91	METAL GLAZE 0 5% 1/8W	(KV-E2543E)
JR1102	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR1103	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR1104	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JW1101	1-535-143-31	LEAD, JUMPER (15.0MM)	
JW1102	1-535-303-00	LEAD, JUMPER (10.0MM)	
JW1103	1-535-303-00	LEAD, JUMPER (10.0MM)	
JW1104	1-535-143-31	LEAD, JUMPER (15.0MM)	
R1101	1-216-188-00	METAL GLAZE 390 5% 1/8W	
R1102	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1103	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1104	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R1105	1-216-005-00	METAL GLAZE 15 5% 1/10W	
R1106	1-216-185-00	METAL GLAZE 300 5% 1/8W	
R1107	1-216-042-00	METAL GLAZE 510 5% 1/10W	
R1108	1-216-063-00	METAL GLAZE 3.9K 5% 1/10W	
R1109	1-216-202-00	METAL GLAZE 1.5K 5% 1/8W	
R1110	1-216-196-00	METAL GLAZE 820 5% 1/8W	
R1111	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R1112	1-216-051-00	METAL GLAZE 1.2K 5% 1/10W	
R1113	1-216-001-00	METAL GLAZE 10 5% 1/10W	
R1114	1-216-105-00	METAL GLAZE 220K 5% 1/10W	
R1115	1-216-121-00	METAL GLAZE 1M 5% 1/10W	
R1116	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1117	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R1118	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R1119	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1120	1-216-232-00	METAL GLAZE 27K 5% 1/8W	
R1121	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R1122	1-216-158-00	METAL GLAZE 22 5% 1/8W	
R1123	1-216-158-00	METAL GLAZE 22 5% 1/8W	
R1124	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R1125	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R1126	1-216-218-00	METAL GLAZE 6.8K 5% 1/8W	
R1127	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R1128	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R1129	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R1130	1-216-246-91	METAL GLAZE 100K 5% 1/8W	
R1131	1-216-218-00	METAL GLAZE 6.8K 5% 1/8W	
R1132	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R1133	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R1134	1-216-212-00	METAL GLAZE 3.9K 5% 1/8W	
R1135	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R1136	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R1137	1-216-095-00	METAL GLAZE 82K 5% 1/10W	
R1138	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R1139	1-216-005-00	METAL GLAZE 15 5% 1/10W	
R1140	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R1141	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R1142	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R1143	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1144	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1145	1-216-001-00	METAL GLAZE 10 5% 1/10W	
R1146	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1147	1-216-045-00	METAL GLAZE 680 5% 1/10W	
R1148	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1149	1-216-001-00	METAL GLAZE 10 5% 1/10W	
R1150	1-216-045-00	METAL GLAZE 680 5% 1/10W	
R1151	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1152	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1153	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1154	1-216-041-00	METAL GLAZE 470 5% 1/10W	

<CRYSTAL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
X1101	1-579-689-21	VIBRATOR, CRYSTAL	
X1102	1-579-282-21	VIBRATOR, CRYSTAL	(KV-E2543E)
	1-579-283-11	VIBRATOR, CRYSTAL	(KV-E2542U)

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REF.NO.	PART NO.	DESCRIPTION	REMARK
	*A-1632-147-A	A BOARD, COMPLETE *****************	(KV-E2541A,KV-E2541D)
	*A-1632-150-A	A BOARD, COMPLETE *****************	(KV-E2541B)
	*A-1632-152-A	A BOARD, COMPLETE *****************	(KV-E2542U)
	*A-1632-153-A	A BOARD, COMPLETE *****************	(KV-E2543E)
	4-200-001-01	HOLDER, IC	
	4-201-023-01	SPACER, INSULATING	
	4-812-134-00	RIVET NYLON, 3.5	

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
C071	1-126-108-11	ELECT 56MF 20% 16V	
C072	1-124-120-11	ELECT 220MF 20% 16V	
C074	1-163-001-11	CERAMIC CHIP 220PF 10% 50V	
C102	1-126-103-11	ELECT 470MF 20% 16V	
C103	1-163-031-11	CERAMIC CHIP 0.01MF 50V	

A

REF.NO.	PART NO.	DESCRIPTION			REMARK
C104	1-124-910-11	ELECT	47MF	20%	50V
C105	1-124-916-11	ELECT	22MF	20%	50V
C106	1-124-927-11	ELECT	4.7MF	20%	50V
C110	1-124-478-11	ELECT	100MF	20%	25V
C120	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C201	1-130-489-00	FILM	0.033MF	5%	50V
C202	1-130-489-00	FILM	0.033MF	5%	50V
C203	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C204	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C205	1-124-907-11	ELECT	10MF	20%	50V
C206	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C207	1-137-613-11	FILM	0.0018MF	2%	100V
C208	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C209	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C210	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C213	1-163-023-00	CERAMIC CHIP	0.015MF	10%	50V
C214	1-163-023-00	CERAMIC CHIP	0.015MF	10%	50V
C215	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C216	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C217	1-124-925-11	ELECT	2.2MF	20%	50V
C218	1-124-925-11	ELECT	2.2MF	20%	50V
C219	1-163-011-11	CERAMIC CHIP	0.0015MF	10%	50V
C220	1-163-011-11	CERAMIC CHIP	0.0015MF	10%	50V
C221	1-124-925-11	ELECT	2.2MF	20%	50V
C222	1-124-925-11	ELECT	2.2MF	20%	50V
C223	1-136-177-00	FILM	1MF	5%	50V
C224	1-136-177-00	FILM	1MF	5%	50V
C225	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C226	1-163-007-11	CERAMIC CHIP	680PF	10%	50V
C227	1-124-907-11	ELECT	10MF	20%	50V
C228	1-124-907-11	ELECT	10MF	20%	50V
C229	1-124-478-11	ELECT	100MF	20%	25V
C230	1-124-478-11	ELECT	100MF	20%	25V
C231	1-164-346-11	CERAMIC CHIP	1MF		16V
C232	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C233	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C234	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C235	1-130-772-00	FILM	0.22MF	5%	63V
C236	1-124-618-11	ELECT	2200MF	20%	35V
C237	1-124-618-11	ELECT	2200MF	20%	35V
C238	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C239	1-130-772-00	FILM	0.22MF	5%	63V
C240	1-124-903-11	ELECT	1MF	20%	50V
C241	1-124-903-11	ELECT	1MF	20%	50V
C242	1-124-903-11	ELECT	1MF	20%	50V
C244	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C248	1-163-185-00	CERAMIC CHIP	150PF	5%	50V
C249	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C251	1-126-320-11	ELECT	10MF	20%	16V
C254	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C255	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C256	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C257	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C301	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C302	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C303	1-164-337-11	CERAMIC CHIP	2.2MF		16V
C304	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C305	1-163-096-00	CERAMIC CHIP	13PF	5%	50V
C306	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C307	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C308	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C309	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C310	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C311	1-163-038-91	CERAMIC CHIP	0.1MF		25V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C312	1-124-910-11	ELECT	47MF	20%	50V
C313	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C314	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C315	1-124-910-11	ELECT	47MF	20%	50V
C316	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C317	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C318	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C319	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C320	1-124-910-11	ELECT	47MF	20%	50V
C321	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C322	1-124-916-11	ELECT	22MF	20%	50V
C323	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
C324	1-124-910-11	ELECT	47MF	20%	50V
C325	1-163-111-00	CERAMIC CHIP	56PF	5%	50V
C341	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V
C342	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V
C343	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C344	1-162-638-11	CERAMIC CHIP	1MF		16V
C345	1-164-346-11	CERAMIC CHIP	1MF		16V
C347	1-162-638-11	CERAMIC CHIP	1MF		16V
C348	1-164-346-11	CERAMIC CHIP	1MF		16V
C349	1-164-346-11	CERAMIC CHIP	1MF		16V
C350	1-124-907-11	ELECT	10MF	20%	50V
C351	1-124-443-00	ELECT	100MF	20%	10V
C353	1-164-346-11	CERAMIC CHIP	1MF		16V
C354	1-164-346-11	CERAMIC CHIP	1MF		16V
C355	1-162-638-11	CERAMIC CHIP	1MF		16V
C356	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C357	1-164-299-11	CERAMIC CHIP	0.22MF	10%	25V
C358	1-164-299-11	CERAMIC CHIP	0.22MF	10%	25V
C359	1-124-907-11	ELECT	10MF	20%	50V
C361	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
C362	1-130-772-00	FILM	0.22MF	5%	63V
C363	1-124-907-11	ELECT	10MF	20%	50V
C365	1-124-120-11	ELECT	220MF	20%	16V
C366	1-124-903-11	ELECT	1MF	20%	50V
C368	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C369	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C401	1-164-005-11	CERAMIC CHIP	0.47MF		16V
C402	1-124-917-11	ELECT	33MF	20%	50V
C403	1-162-637-11	CERAMIC CHIP	0.47MF		16V
C411	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C412	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C421	1-124-910-11	ELECT	47MF	20%	50V
C422	1-124-910-11	ELECT	47MF	20%	50V
C423	1-101-004-00	CERAMIC	0.01MF		50V
C424	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C425	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C426	1-124-910-11	ELECT	47MF	20%	50V
C427	1-164-346-11	CERAMIC CHIP	1MF		16V
C428	1-164-346-11	CERAMIC CHIP	1MF		16V
C429	1-124-119-00	ELECT	330MF	20%	16V
C574	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C575	1-164-299-11	CERAMIC CHIP	0.22MF	10%	25V
C576	1-163-075-00	CERAMIC CHIP	0.047MF	10%	25V
C581	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C582	1-124-916-11	ELECT	22MF	20%	50V
C583	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C585	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C586	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C587	1-124-903-11	ELECT	1MF	20%	50V
C588	1-164-346-11	CERAMIC CHIP	1MF		16V
C589	1-126-103-11	ELECT	470MF	20%	16V

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION	REMARK
C590	1-124-916-11	ELECT 22MF 20% 50V	
C591	1-124-925-11	ELECT 2.2MF 20% 50V	
C592	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C593	1-164-182-11	CERAMIC CHIP 0.0033MF 10% 50V	
C595	1-163-109-00	CERAMIC CHIP 47PF 5% 50V	
C599	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C644	1-124-598-11	ELECT 22MF 20% 25V	
C681	1-124-478-11	ELECT 100MF 20% 25V	
C682	1-126-516-11	ELECT 120MF 20% 16V	
C683	1-124-478-11	ELECT 100MF 20% 25V	
C684	1-124-478-11	ELECT 100MF 20% 25V	
C685	1-124-478-11	ELECT 100MF 20% 25V	
C686	1-163-038-91	CERAMIC CHIP 0.1MF 25V	

<FILTER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CF581	1-577-611-11	OSCILALTOR, CERAMIC	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN0001*	1-568-880-51	PIN, CONNECTOR 5P	
CN0101	1-573-297-11	CONNECTOR, BOARD TO BOARD 20P (KV-E2543E,E2542U)	
CN0102	1-573-296-11	CONNECTOR, BOARD TO BOARD 10P	
CN0103	1-564-511-11	PLUG, CONNECTOR 8P	
CN0104	1-564-511-11	PLUG, CONNECTOR 8P	
CN0105*	1-568-880-51	PIN, CONNECTOR 5P	
CN0106*	1-568-880-51	PIN, CONNECTOR 5P	
CN0107*	1-568-879-11	PIN, CONNECTOR 4P	
CN0108*	1-568-878-51	PIN, CONNECTOR 3P	
CN0109	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P	
CN0110*	1-568-882-51	PIN, CONNECTOR 7P	
CN0111	1-568-882-51	PIN, CONNECTOR 7P	
CN0113	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
CN0114*	1-568-879-11	PIN, CONNECTOR 4P	
CN0115*	1-564-516-11	PLUG, CONNECTOR 13P	
CN0116*	1-568-879-11	PIN, CONNECTOR 4P	
CN0119*	1-568-879-11	PIN, CONNECTOR 4P	
CN5108*	1-564-513-11	PLUG, CONNECTOR 10P	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D068	8-719-104-34	DIODE 1S2836	
D069	8-719-104-34	DIODE 1S2836	
D071	8-719-109-89	DIODE RD5.6ESB2	
D073	8-719-109-89	DIODE RD5.6ESB2	
D075	8-719-400-18	DIODE MA152WK	
D077	8-719-400-18	DIODE MA152WK	
D078	8-719-109-89	DIODE RD5.6ESB2	
D079	8-719-109-89	DIODE RD5.6ESB2	
D101	8-719-982-27	DIODE MTZJ-33C	
D206	8-719-400-18	DIODE MA152WK	
D207	8-719-921-89	DIODE MTZJ-13C	
D208	8-719-911-19	DIODE 1SS119	
D209	8-719-911-19	DIODE 1SS119	
D210	8-719-911-19	DIODE 1SS119	
D211	8-719-911-19	DIODE 1SS119	
D212	8-719-911-19	DIODE 1SS119	
D213	8-719-400-18	DIODE MA152WK	
D214	8-719-800-76	DIODE 1SS226	
D301	8-719-400-18	DIODE MA152WK	
D302	8-719-104-34	DIODE 1S2836	
D304	8-719-109-89	DIODE RD5.6ESB2	
D305	8-719-400-18	DIODE MA152WK	
D306	8-719-400-18	DIODE MA152WK	
D307	8-719-400-18	DIODE MA152WK	
D308	8-719-800-76	DIODE 1SS226	
D311	8-719-800-76	DIODE 1SS226	
D312	8-719-104-34	DIODE 1S2836	
D313	8-719-400-18	DIODE MA152WK	
D381	8-719-110-03	DIODE RD7.5ESB2	
D401	8-719-921-69	DIODE MTZJ-9.1	
D403	8-719-921-69	DIODE MTZJ-9.1	
D405	8-719-921-69	DIODE MTZJ-9.1	
D406	8-719-921-69	DIODE MTZJ-9.1	
D407	8-719-921-69	DIODE MTZJ-9.1	
D571	8-719-800-76	DIODE 1SS226	
D681	8-719-921-75	DIODE MTZN-10B	
D683	8-719-104-34	DIODE 1S2836	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC072	8-759-184-27	IC ST24C16CB1	
IC201	8-759-073-30	IC TDA6612 (KV-E2541A,E2541B,E2541D,E2543E)	
	8-759-073-31	IC TDA6622 (KV-E2542U)	
IC202	8-759-502-21	IC TDA2822M	
IC251	8-759-072-99	IC TDA2052	
IC261	8-759-072-99	IC TDA2052	
IC301	8-759-189-90	IC TDA9145/N2B	
IC302	8-759-084-91	IC TDA4661/V2	
IC304	8-752-056-54	IC CXA1587S	
IC401	8-752-062-86	IC CXA1545AS	
IC402	8-759-073-00	IC TEA2114	
IC681	8-759-072-98	IC TDA8138A	
IC684	8-759-701-59	IC NJM78M09FA	
IC685	8-759-510-52	IC TEA7605	

<IF BLOCK>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IFB101	1-466-733-11	IF BLOCK (IFH-389) (KV-E2541A,E2541D,E2543E)	
	1-466-734-11	IF BLOCK (IFH-395) (KV-E2542U)	
	1-466-735-11	IF BLOCK (IFH-389F) (KV-E2541B)	

<COIL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
L101	1-412-546-41	INDUCTOR 560UH	
L102	1-408-413-00	INDUCTOR 22UH	
L201	1-407-500-00	INDUCTOR 4.7MMH	
L306	1-408-405-00	INDUCTOR 4.7UH	
L307	1-408-405-00	INDUCTOR 4.7UH	
L309	1-408-411-00	INDUCTOR 15UH	
L310	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
L575	1-408-397-00	INDUCTOR 1UH	
L611	1-412-539-41	INDUCTOR 150UH	
L681	1-412-539-41	INDUCTOR 150UH	

<IC LINK>

REF.NO.	PART NO.	DESCRIPTION	REMARK
PS681⚠	1-532-605-91	LINK, IC 0.4A	
PS682⚠	1-532-605-91	LINK, IC 0.4A	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q071	8-729-901-05	TRANSISTOR DTA124EK	
Q101	8-729-216-22	TRANSISTOR 2SA1162-G	
Q102	8-729-901-00	TRANSISTOR DTC124EK	
Q103	8-729-900-53	TRANSISTOR DTC114EK	

A

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q201	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q202	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q203	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q204	8-729-216-22	TRANSISTOR 2SA1162-G	
Q205	8-729-216-22	TRANSISTOR 2SA1162-G	
Q206	8-729-216-22	TRANSISTOR 2SA1162-G	
Q207	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q209	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q210	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q301	8-729-901-00	TRANSISTOR DTC124EK	
Q302	8-729-216-22	TRANSISTOR 2SA1162-G	
Q303	8-729-216-22	TRANSISTOR 2SA1162-G	
Q304	8-729-900-53	TRANSISTOR DTC114EK	
Q305	8-729-901-01	TRANSISTOR DTC144EK	
Q306	8-729-216-22	TRANSISTOR 2SA1162-G	
Q308	8-729-216-22	TRANSISTOR 2SA1162-G	
Q309	8-729-931-02	TRANSISTOR 2SC2413KQ	
Q311	8-729-901-06	TRANSISTOR DTA144EK	
Q312	8-729-900-53	TRANSISTOR DTC114EK	
Q313	8-729-216-22	TRANSISTOR 2SA1162-G	
Q314	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q315	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q401	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q402	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q403	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q404	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q581	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q582	8-729-216-22	TRANSISTOR 2SA1162-G	
Q610	8-729-140-97	TRANSISTOR 2SB734-34	
Q681	8-729-109-53	TRANSISTOR 2SD795A-P	
Q682	8-729-900-53	TRANSISTOR DTC114EK	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
JR101	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR102	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR104	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR107	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR111	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR112	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR113	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR114	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR115	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR116	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR117	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR118	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR119	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR120	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR121	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR122	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR123	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR124	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR125	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR127	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR129	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR130	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR131	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR132	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR133	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR134	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR136	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR137	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR138	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR140	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR141	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR142	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR143	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR144	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR145	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR150	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR151	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR152	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR201	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR202	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR203	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR204	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR205	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR206	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR207	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR208	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR209	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR210	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR211	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR212	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR213	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR214	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR215	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR216	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR217	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR218	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR219	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR220	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR221	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR222	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR223	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR225	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR226	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR227	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR228	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR229	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR230	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR231	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR232	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR233	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR235	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR236	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR237	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR238	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR239	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR240	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR241	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR242	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR243	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR245	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR246	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR247	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR248	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR249	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR250	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR251	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR252	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR253	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR254	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR255	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR256	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR257	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR258	1-216-296-00	METAL GLAZE	0	5%	1/8W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
JR270	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR272	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR367	1-216-296-00	METAL GLAZE	0	5%	1/8W	
R071	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R072	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R073	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R074	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R076	1-216-057-91	METAL GLAZE	2.2K	5%	1/10W	
R077	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R101	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R102	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R103	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R105	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R108	1-216-230-00	METAL GLAZE	22K	5%	1/8W	
R115	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W	
R201	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W	
R202	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W	
R203	1-216-067-91	METAL GLAZE	5.6K	5%	1/10W	
R204	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R205	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R206	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R207	1-216-057-91	METAL GLAZE	2.2K	5%	1/10W	
R208	1-216-057-91	METAL GLAZE	2.2K	5%	1/10W	
R209	1-249-377-11	CARBON	0.47	5%	1/4W	F
R210	1-247-734-11	CARBON	39	5%	1/2W	
R211	1-247-734-11	CARBON	39	5%	1/2W	
R212	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R213	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R214	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R215	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R216	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R217	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R218	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R221	1-212-849-00	FUSIBLE	4.7	5%	1/4W	F
R222	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R223	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R224	1-249-433-11	CARBON	22K	5%	1/4W	
R225	1-212-849-00	FUSIBLE	4.7	5%	1/4W	F
R226	1-249-412-11	CARBON	390	5%	1/4W	
R227	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R228	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R229	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R230	1-216-246-91	METAL GLAZE	100K	5%	1/8W	
R231	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R232	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R233	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R234	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R235	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R236	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R237	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R238	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R239	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R241	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R242	1-216-214-00	METAL GLAZE	4.7K	5%	1/8W	
R244	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R245	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R246	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R247	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R248	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R249	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R250	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R251	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R252	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R253	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R254	1-216-252-00	METAL GLAZE	180K	5%	1/8W	
R255	1-216-252-00	METAL GLAZE	180K	5%	1/8W	
R256	1-249-409-11	CARBON	220	5%	1/4W	
R257	1-249-409-11	CARBON	220	5%	1/4W	
R258	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R259	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
R260	1-216-212-00	METAL GLAZE	3.9K	5%	1/8W	
R301	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R302	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R303	1-216-174-00	METAL GLAZE	100	5%	1/8W	
R304	1-216-174-00	METAL GLAZE	100	5%	1/8W	
R305	1-216-035-00	METAL GLAZE	270	5%	1/10W	
R306	1-216-035-00	METAL GLAZE	270	5%	1/10W	
R307	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R308	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R309	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R310	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R311	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R312	1-249-413-11	CARBON	470	5%	1/4W	
R313	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R314	1-249-409-11	CARBON	220	5%	1/4W	
R315	1-249-409-11	CARBON	220	5%	1/4W	
R316	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R317	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R318	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R319	1-249-413-11	CARBON	470	5%	1/4W	
R320	1-216-174-00	METAL GLAZE	100	5%	1/8W	
R321	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R322	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R324	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R325	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R326	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R328	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R329	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R330	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R331	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R333	1-216-182-91	METAL GLAZE	220	5%	1/8W	
R334	1-216-182-91	METAL GLAZE	220	5%	1/8W	
R336	1-216-029-00	METAL GLAZE	150	5%	1/10W	(KV-E2541A,E2541D,E2543E)
	1-216-178-00	METAL GLAZE	150	5%	1/8W	(KV-E2541B,E2542U)
R337	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R338	1-216-035-00	METAL GLAZE	270	5%	1/10W	
R339	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R340	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R341	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R342	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R343	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R344	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R345	1-216-171-00	METAL GLAZE	75	5%	1/8W	
R346	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R347	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R351	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R352	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R354	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R355	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R356	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R357	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R358	1-216-031-00	METAL GLAZE	180	5%	1/10W	
R359	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R360	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R361	1-216-033-00	METAL GLAZE	220	5%	1/10W	

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

A IF (KV-E2541A/E2541D/ E2543E)

REF.NO.	PART NO.	DESCRIPTION				REMARK
R362	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R365	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R366	1-216-067-91	METAL GLAZE	5.6K	5%	1/10W	
R368	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R369	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R370	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R371	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R373	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R376	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R377	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R378	1-216-057-91	METAL GLAZE	2.2K	5%	1/10W	
R379	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W	
R380	1-216-057-91	METAL GLAZE	2.2K	5%	1/10W	
R381	1-216-164-00	METAL GLAZE	39	5%	1/8W	
R382	1-216-164-00	METAL GLAZE	39	5%	1/8W	
R383	1-216-164-00	METAL GLAZE	39	5%	1/8W	
R384	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R386	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R387	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R388	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R389	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R390	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R401	1-216-171-00	METAL GLAZE	75	5%	1/8W	
R402	1-216-158-00	METAL GLAZE	22	5%	1/8W	
R403	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R404	1-216-158-00	METAL GLAZE	22	5%	1/8W	
R405	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R406	1-216-158-00	METAL GLAZE	22	5%	1/8W	
R407	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R408	1-216-093-00	METAL GLAZE	68K	5%	1/10W	
R410	1-216-067-91	METAL GLAZE	5.6K	5%	1/10W	
R411	1-216-067-91	METAL GLAZE	5.6K	5%	1/10W	
R412	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R413	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R414	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R416	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R417	1-216-067-91	METAL GLAZE	5.6K	5%	1/10W	
R419	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R420	1-216-067-91	METAL GLAZE	5.6K	5%	1/10W	
R423	1-216-015-00	METAL GLAZE	39	5%	1/10W	
R424	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R425	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R426	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R427	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R428	1-249-393-11	CARBON	10	5%	1/4W	F
R572	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R574	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R575	1-216-186-00	METAL GLAZE	330	5%	1/8W	
R577	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R578	1-216-228-00	METAL GLAZE	18K	5%	1/8W	
R580	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R581	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R582	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R583	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R584	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R585	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R586	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R587	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R588	1-216-101-00	METAL GLAZE	150K	5%	1/10W	
R589	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R590	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R591	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R592	1-216-232-00	METAL GLAZE	27K	5%	1/8W	
R593	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R594	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R595	1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R596	1-216-067-91	METAL GLAZE	5.6K	5%	1/10W	
R597	1-216-230-00	METAL GLAZE	22K	5%	1/8W	
R600	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R616	1-216-184-00	METAL GLAZE	270	5%	1/8W	
R619	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R628	1-249-413-11	CARBON	470	5%	1/4W	
R632	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R681	1-216-397-11	METAL OXIDE	4.7	5%	3W	F
R682	1-249-415-11	CARBON	680	5%	1/4W	
R683	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R2219	1-216-174-00	METAL GLAZE	100	5%	1/8W	
R2220	1-216-174-00	METAL GLAZE	100	5%	1/8W	
R2221	1-216-174-00	METAL GLAZE	100	5%	1/8W	
R2222	1-216-174-00	METAL GLAZE	100	5%	1/8W	

<TUNER>

REF.NO.	PART NO.	DESCRIPTION
TU101	⚠ 1-693-184-11	TUNER (U944C) (KV-E2542U)
	⚠ 1-693-185-11	TUNER (UV916H) (KV-E2541A,E2541D,E2543E)
	⚠ 8-598-045-00	SONY ET TUNER (8BTP-EC411) (KV-E2541B)

<CRYSTAL>

REF.NO.	PART NO.	DESCRIPTION
X301	1-567-504-11	OSCILLATOR, CRYSTAL
X302	1-567-505-11	OSCILLATOR, CRYSTAL

****

1-466-733-11 IF BLOCK (IFH-389)
****
(KV-E2541A,E2541D,E2543E)

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION			
C101	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C102	1-164-222-11	CERAMIC CHIP	0.22MF		25V
C103	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C104	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C105	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C106	1-124-477-11	ELECT	47MF	20%	16V
C107	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C108	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C109	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C112	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C113	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
C114	1-124-477-11	ELECT	47MF	20%	16V
C115	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C116	1-164-346-11	CERAMIC CHIP	1MF		16V
C118	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C119	1-163-369-11	CERAMIC CHIP	47PF	5%	50V
C121	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C122	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C123	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C124	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C130	1-216-295-00	METAL GLAZE	0	5%	1/10W
C131	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C133	1-124-477-11	ELECT	47MF	20%	16V
C152	1-164-337-11	CERAMIC CHIP	2.2MF		16V
C153	1-164-337-11	CERAMIC CHIP	2.2MF		16V
C154	1-164-337-11	CERAMIC CHIP	2.2MF		16V
C155	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C156	1-124-477-11	ELECT	47MF	20%	16V

IF (KV-E2541A/E2541D/ E2543E)

REF.NO.	PART NO.	DESCRIPTION			REMARK
C161	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C162	1-164-222-11	CERAMIC CHIP	0.22MF		25V
C163	1-164-346-11	CERAMIC CHIP	1MF		16V
C164	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C165	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C166	1-124-477-11	ELECT	47MF	20%	16V
C167	1-163-213-00	CERAMIC CHIP	0.0022MF	5%	50V
C168	1-164-346-11	CERAMIC CHIP	1MF		16V
C170	1-124-477-11	ELECT	47MF	20%	16V
C171	1-124-477-11	ELECT	47MF	20%	16V
C172	1-124-477-11	ELECT	47MF	20%	16V
C173	1-124-477-11	ELECT	47MF	20%	16V

<FILTER>

CF2	1-527-839-00	FILTER, CERAMIC
CF3	1-527-840-00	FILTER, CERAMIC
CF4	1-567-570-11	FILTER, CERAMIC
SWF1	1-579-658-11	FILTER, SAWTOOTH WAVE

<CONNECTOR>

CN1	1-750-173-11	PIN, CONNECTOR (PC BOARD) 10P
CN2	1-750-173-11	PIN, CONNECTOR (PC BOARD) 10P

<TRIMMER>

CT1	1-404-801-11	TRAP, CERAMIC

<DIODE>

D161	8-719-400-18	DIODE MA152WK

<IC>

IC1	8-759-070-76	IC M52308SP
IC2	8-759-070-71	IC TDA9820
IC3	8-759-514-54	IC BA7046

<COIL>

L101	1-408-421-00	INDUCTOR	100UH
L102	1-408-419-00	INDUCTOR	68UH
L103	1-408-419-00	INDUCTOR	68UH
L104	1-408-408-00	INDUCTOR	8.2UH
L121	1-408-413-00	INDUCTOR	22UH
L122	1-408-420-00	INDUCTOR	82UH
L142	1-410-790-41	INDUCTOR	0.56UH
L151	1-408-419-00	INDUCTOR	68UH
L161	1-408-419-00	INDUCTOR	68UH

<TRANSISTOR>

Q101	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q102	8-729-216-22	TRANSISTOR 2SA1162-G
Q121	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q122	8-729-216-22	TRANSISTOR 2SA1162-G
Q161	8-729-216-22	TRANSISTOR 2SA1162-G
Q170	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q171	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q172	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q173	8-729-120-28	TRANSISTOR 2SC1623-L5L6

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
JR2	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR3	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR4	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR7	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR8	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR9	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR11	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR14	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR16	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR18	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR19	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR20	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR21	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR23	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR24	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR25	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR29	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR30	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR33	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR38	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR39	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR40	1-216-296-00	METAL GLAZE	0	5%	1/8W	
R101	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R102	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R103	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R104	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R106	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R107	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R108	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R110	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R113	1-216-031-00	METAL GLAZE	180	5%	1/10W	
R114	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R115	1-216-027-00	METAL GLAZE	120	5%	1/10W	
R116	1-216-101-00	METAL GLAZE	150K	5%	1/10W	
R117	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R118	1-216-117-00	METAL GLAZE	680K	5%	1/10W	
R119	1-216-240-00	METAL GLAZE	56K	5%	1/8W	
R120	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R121	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R122	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R123	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R124	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R125	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R127	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R130	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R131	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R132	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R133	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R134	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R135	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R150	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R151	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R152	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R153	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R154	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R155	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R156	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R157	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R159	1-216-107-00	METAL GLAZE	270K	5%	1/10W	
R160	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R161	1-218-755-11	METAL CHIP	130K	0.50%	1/10W	
R162	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R163	1-216-113-00	METAL GLAZE	470K	5%	1/10W	

IF (KV-E2541A/E2541D/E2543E)

REF.NO.	PART NO.	DESCRIPTION	REMARK
R164	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R165	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R166	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R167	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R168	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R169	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R170	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
R171	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R172	1-216-095-00	METAL GLAZE 82K 5% 1/10W	
R173	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R174	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R175	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
R176	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R177	1-216-095-00	METAL GLAZE 82K 5% 1/10W	
R178	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R179	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R180	1-216-037-00	METAL GLAZE 330 5% 1/10W	
R181	1-216-037-00	METAL GLAZE 330 5% 1/10W	

<VARIABLE RESISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
RV1	1-241-121-11	RES, ADJ, CARBON 4.7K	

<TRANSFORMER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
T4	1-416-017-21	COIL	
T5	1-416-018-21	COIL	

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IF (KV-E2542U)

1-466-734-11 IF BLOCK (IFH-395) (KV-E2542U)
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<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
C101	1-163-239-11	CERAMIC CHIP 33PF 5% 50V	
C102	1-164-222-11	CERAMIC CHIP 0.22MF 25V	
C103	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C104	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C105	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C106	1-124-477-11	ELECT 47MF 20% 16V	
C107	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C108	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C109	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C112	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C113	1-163-101-00	CERAMIC CHIP 22PF 5% 50V	
C114	1-124-477-11	ELECT 47MF 20% 16V	
C115	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C116	1-164-346-11	CERAMIC CHIP 1MF 16V	
C118	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C119	1-163-369-11	CERAMIC CHIP 47PF 5% 50V	
C122	1-163-093-00	CERAMIC CHIP 10PF 5% 50V	
C130	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C131	1-163-224-11	CERAMIC CHIP 7PF 0.25PF 50V	
C133	1-124-477-11	ELECT 47MF 20% 16V	
C161	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C162	1-164-222-11	CERAMIC CHIP 0.22MF 25V	
C163	1-164-346-11	CERAMIC CHIP 1MF 16V	
C164	1-163-141-00	CERAMIC CHIP 0.001MF 5% 50V	
C165	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C166	1-124-477-11	ELECT 47MF 20% 16V	
C167	1-163-213-00	CERAMIC CHIP 0.0022MF 5% 50V	
C168	1-164-346-11	CERAMIC CHIP 1MF 16V	
C170	1-124-477-11	ELECT 47MF 20% 16V	
C171	1-124-477-11	ELECT 47MF 20% 16V	

<FILTER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CD1	1-579-657-21	DISCRIMINATOR, CERAMIC	
CF1	1-567-569-11	FILTER, CERAMIC	
SWF1	1-579-659-11	FILTER, SAWTOOTH WAVE	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN1	1-750-173-11	PIN, CONNECTOR (PC BOARD) 10P	
CN2	1-750-173-11	PIN, CONNECTOR (PC BOARD) 10P	

<TRIMMER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CT1	1-409-333-00	TRAP, CERAMIC (6.0MHZ)	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D161	8-719-400-18	DIODE MA152WK	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC1	8-759-070-76	IC M52308SP	
IC3	8-759-514-54	IC BA7046	

<COIL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
L101	1-408-414-00	INDUCTOR 27UH	
L102	1-408-419-00	INDUCTOR 68UH	
L103	1-408-419-00	INDUCTOR 68UH	
L104	1-408-406-00	INDUCTOR 5.6UH	
L105	1-408-410-00	INDUCTOR 12UH	
L142	1-410-790-41	INDUCTOR 0.56UH	
L161	1-408-419-00	INDUCTOR 68UH	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q101	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q102	8-729-216-22	TRANSISTOR 2SA1162-G	
Q122	8-729-216-22	TRANSISTOR 2SA1162-G	
Q161	8-729-216-22	TRANSISTOR 2SA1162-G	
Q172	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q173	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
JR1	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR2	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR3	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR4	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR7	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR8	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR9	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR10	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR11	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR12	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR13	1-163-093-00	CERAMIC CHIP 10PF 5% 50V	
JR14	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR16	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR18	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR19	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR20	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR21	1-216-296-00	METAL GLAZE 0 5% 1/8W	

REF.NO.	PART NO.	DESCRIPTION	REMARK
JR23	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR24	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR25	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR29	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR30	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR33	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR38	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR39	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR40	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR41	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR42	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR101	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R101	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R102	1-216-045-00	METAL GLAZE 680 5% 1/10W	
R103	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R104	1-216-051-00	METAL GLAZE 1.2K 5% 1/10W	
R105	1-216-043-00	METAL GLAZE 560 5% 1/10W	
R106	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R107	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R108	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R110	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R112	1-216-045-00	METAL GLAZE 680 5% 1/10W	
R113	1-216-031-00	METAL GLAZE 180 5% 1/10W	
R114	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R115	1-216-031-00	METAL GLAZE 180 5% 1/10W	
R116	1-216-101-00	METAL GLAZE 150K 5% 1/10W	
R117	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R118	1-216-117-00	METAL GLAZE 680K 5% 1/10W	
R119	1-216-240-00	METAL GLAZE 56K 5% 1/8W	
R120	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R121	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R122	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R123	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R130	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R131	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R132	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
R133	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R134	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R135	1-216-198-00	METAL GLAZE 1K 5% 1/8W	
R153	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R159	1-216-107-00	METAL GLAZE 270K 5% 1/10W	
R160	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R161	1-218-755-11	METAL CHIP 130K 0.50% 1/10W	
R162	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R163	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R164	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R165	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R166	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R167	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R168	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R169	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R175	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
R176	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R177	1-216-095-00	METAL GLAZE 82K 5% 1/10W	
R178	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R179	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R181	1-216-037-00	METAL GLAZE 330 5% 1/10W	

<VARIABLE RESISTOR>

RV1	1-241-121-11	RES, ADJ, CARBON 4.7K	

<TRANSFORMER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
T4	1-416-017-21	COIL	
T5	1-416-018-21	COIL	

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1-466-735-11 IF BLOCK (IFH-389F) (KV-E2541B)
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<CAPACITOR>

C1	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C2	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C3	1-124-903-11	ELECT 1MF 20% 50V	
C4	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C5	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C6	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C7	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C8	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C9	1-124-916-11	ELECT 22MF 20% 25V	
C10	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C11	1-124-477-11	ELECT 47MF 20% 16V	
C13	1-163-059-00	CERAMIC CHIP 0.01MF 10% 50V	
C14	1-124-477-11	ELECT 47MF 20% 16V	
C15	1-124-903-11	ELECT 1MF 20% 50V	
C16	1-163-061-00	CERAMIC CHIP 0.015MF 10% 50V	
C17	1-162-638-11	CERAMIC CHIP 1MF 16V	
C18	1-162-638-11	CERAMIC CHIP 1MF 16V	
C19	1-163-141-00	CERAMIC CHIP 0.001MF 5% 50V	
C20	1-124-902-00	ELECT 0.47MF 20% 50V	
C21	1-124-903-11	ELECT 1MF 20% 50V	
C22	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C23	1-124-902-00	ELECT 0.47MF 20% 50V	
C24	1-164-506-11	CERAMIC CHIP 4.7MF 16V	
C25	1-124-477-11	ELECT 47MF 20% 16V	
C26	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C27	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C28	1-124-477-11	ELECT 47MF 20% 16V	
C33	1-124-907-11	ELECT 10MF 20% 50V	
C34	1-124-907-11	ELECT 10MF 20% 50V	
C35	1-124-925-11	ELECT 2.2MF 20% 50V	
C36	1-124-477-11	ELECT 47MF 20% 16V	
C37	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C38	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C40	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C71	1-124-477-11	ELECT 47MF 20% 16V	
C72	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C80	1-124-477-11	ELECT 47MF 20% 16V	
C83	1-124-477-11	ELECT 47MF 20% 16V	
C84	1-124-477-11	ELECT 47MF 20% 16V	
C85	1-124-477-11	ELECT 47MF 20% 16V	
C86	1-124-477-11	ELECT 47MF 20% 16V	
C87	1-124-477-11	ELECT 47MF 20% 16V	
C91	1-163-229-11	CERAMIC CHIP 12PF 5% 50V	
C95	1-164-337-11	CERAMIC CHIP 2.2MF 16V	
C101	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C102	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C104	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C105	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C106	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C121	1-126-176-11	ELECT 220MF 20% 10V	
C122	1-163-119-00	CERAMIC CHIP 120PF 5% 50V	
C131	1-126-099-11	ELECT 2.2MF 20% 35V	

IF(KV-E2541B)

<FILTER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CF1	1-527-839-00	FILTER, CERAMIC	
CF2	1-567-569-11	FILTER, CERAMIC	
CF3	1-527-840-00	FILTER, CERAMIC	
CF4	1-567-570-11	FILTER, CERAMIC	
SWF1	1-579-662-11	FILTER, SURFACE WAVE	
SWF3	1-404-711-11	SAWF	
SWF4	1-579-660-11	FILTER, SAWTOOTH WAVE	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN1	1-750-173-11	PIN, CONNECTOR (PC BOARD) 10P	
CN2	1-750-173-11	PIN, CONNECTOR (PC BOARD) 10P	

<TRIMMER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CT1	1-404-801-11	TRAP, CERAMIC	
CT2	1-409-429-11	TRAP, CERAMIC	
CV1	1-141-245-00	CAP, TRIMMER	
CV2	1-141-245-00	CAP, TRIMMER	
CV3	1-141-304-21	TRIMMER, CERAMIC	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D7	8-719-421-57	DIODE MA73-TX	
D8	8-719-421-57	DIODE MA73-TX	
D9	8-719-421-57	DIODE MA73-TX	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC1	8-759-070-75	IC M52312SP	
IC2	8-759-070-71	IC TDA9820	
IC3	8-759-979-62	IC PCF8574	

<COIL>

REF.NO.	PART NO.	DESCRIPTION		REMARK
L1	1-408-419-00	INDUCTOR	68UH	
L2	1-408-419-00	INDUCTOR	68UH	
L3	1-408-407-00	INDUCTOR	6.8UH	
L4	1-408-419-00	INDUCTOR	68UH	
L5	1-408-419-00	INDUCTOR	68UH	
L7	1-408-406-00	INDUCTOR	5.6UH	
L9	1-408-419-00	INDUCTOR	68UH	
L71	1-408-419-00	INDUCTOR	68UH	
L101	1-408-399-00	INDUCTOR	1.5UH	
L121	1-408-407-00	INDUCTOR	6.8UH	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q1	8-729-907-06	TRANSISTOR BF199-AMMO	
Q4	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q5	8-729-115-10	TRANSISTOR 2SK105A-10	
Q6	8-729-900-52	TRANSISTOR DTC114YK	
Q7	8-729-216-22	TRANSISTOR 2SA1162-G	
Q8	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q10	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q11	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q12	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q13	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q14	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q15	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q16	8-729-216-22	TRANSISTOR 2SA1162-G	
Q101	8-729-104-80	TRANSISTOR 2SC3355	
Q121	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
JR2	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR3	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR5	1-216-296-00	METAL GLAZE	0	5%	1/8W	
R1	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R3	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R4	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R5	1-216-021-00	METAL GLAZE	68	5%	1/10W	
R6	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R8	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R9	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R10	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R11	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R24	1-216-280-00	METAL GLAZE	2.7M	5%	1/8W	
R25	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R26	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R27	1-216-266-00	METAL GLAZE	680K	5%	1/8W	
R28	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R29	1-216-035-00	METAL GLAZE	270	5%	1/10W	
R30	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R31	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R32	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R33	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R34	1-216-252-00	METAL GLAZE	180K	5%	1/8W	
R35	1-216-035-00	METAL GLAZE	270	5%	1/10W	
R36	1-216-029-00	METAL GLAZE	150	5%	1/10W	
R37	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R38	1-216-099-00	METAL GLAZE	120K	5%	1/10W	
R39	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R40	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R42	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R43	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R44	1-216-027-00	METAL GLAZE	120	5%	1/10W	
R45	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R46	1-216-031-00	METAL GLAZE	180	5%	1/10W	
R47	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R48	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R49	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R53	1-216-082-00	METAL GLAZE	24K	5%	1/10W	
R54	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R55	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R56	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R57	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R58	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R59	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R60	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R61	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R63	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R71	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R72	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R73	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R74	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R75	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R76	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R77	1-216-174-00	METAL GLAZE	100	5%	1/8W	
R81	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R82	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R83	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R84	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R85	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R86	1-216-689-11	METAL GLAZE	39K	5%	1/10W	

REF.NO.	PART NO.	DESCRIPTION	REMARK
R87	1-216-095-00	METAL GLAZE 82K 5% 1/10W	
R88	1-216-095-00	METAL GLAZE 82K 5% 1/10W	
R89	1-216-095-00	METAL GLAZE 82K 5% 1/10W	
R90	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R91	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R92	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R93	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R94	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R95	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R96	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R97	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R98	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R99	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R100	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R102	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R103	1-216-063-00	METAL GLAZE 3.9K 5% 1/10W	
R104	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R105	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R121	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R122	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R123	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R124	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R125	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R301	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R302	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R303	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R304	1-216-037-00	METAL GLAZE 330 5% 1/10W	
R305	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R306	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R307	1-216-037-00	METAL GLAZE 330 5% 1/10W	
R308	1-216-037-00	METAL GLAZE 330 5% 1/10W	

<VARIABLE RESISTOR>

RV2	1-241-120-11	RES, ADJ, CARBON 2.2K

<TRANSFORMER>

T1	1-404-806-21	COIL
T3	1-416-012-11	COIL
T4	1-416-012-11	COIL
T5	1-402-720-11	COIL

<CRYSTAL>

X1	1-579-648-21	VIBRATOR, CERAMIC

****

*A-1635-006-A M1 BOARD, COMPLETE

****

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
C001	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C002	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C003	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C004	1-164-222-11	CERAMIC CHIP 0.22MF 25V	
C007	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C008	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C010	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C011	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C012	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C014	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C016	1-163-141-00	CERAMIC CHIP 0.001MF 5% 50V	
C017	1-164-222-11	CERAMIC CHIP 0.22MF 25V	
C018	1-164-505-11	CERAMIC CHIP 2.2MF 16V	
C019	1-124-916-11	ELECT 22MF 20% 50V	
C020	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C021	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C022	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C023	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C024	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C025	1-164-222-11	CERAMIC CHIP 0.22MF 25V	
C026	1-164-222-11	CERAMIC CHIP 0.22MF 25V	
C032	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C035	1-163-033-00	CERAMIC CHIP 0.022MF 50V	
C036	1-164-005-11	CERAMIC CHIP 0.47MF 25V	
C037	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C039	1-163-011-11	CERAMIC CHIP 0.0015MF 10% 50V	
C041	1-162-638-11	CERAMIC CHIP 1MF 16V	
C042	1-164-346-11	CERAMIC CHIP 1MF 16V	
C522	1-163-141-00	CERAMIC CHIP 0.001MF 5% 50V	
C523	1-163-141-00	CERAMIC CHIP 0.001MF 5% 50V	
C524	1-163-113-00	CERAMIC CHIP 68PF 5% 50V	
C525	1-164-222-11	CERAMIC CHIP 0.22MF 25V	
C528	1-163-105-00	CERAMIC CHIP 33PF 5% 50V	
C529	1-163-169-00	CERAMIC CHIP 33PF 5% 50V	
C541	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C542	1-163-037-11	CERAMIC CHIP 0.022MF 10% 25V	
C543	1-164-161-11	CERAMIC CHIP 0.0022MF 10% 50V	
C544	1-164-161-11	CERAMIC CHIP 0.0022MF 10% 50V	
C546	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C547	1-163-020-00	CERAMIC CHIP 0.0082MF 10% 50V	
C549	1-163-989-11	CERAMIC CHIP 0.033MF 10% 25V	
C550	1-163-141-00	CERAMIC CHIP 0.001MF 5% 50V	
C559	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C560	1-164-161-11	CERAMIC CHIP 0.0022MF 10% 50V	
C563	1-163-031-11	CERAMIC CHIP 0.01MF 50V	
C564	1-163-031-11	CERAMIC CHIP 0.01MF 50V	
C565	1-163-031-11	CERAMIC CHIP 0.01MF 50V	
C566	1-163-031-11	CERAMIC CHIP 0.01MF 50V	
C567	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
C568	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
C569	1-164-161-11	CERAMIC CHIP 0.0022MF 10% 50V	
C570	1-162-568-11	CERAMIC CHIP 0.33MF 10% 16V	
C2001	1-163-235-11	CERAMIC CHIP 22PF 5% 50V	
C2002	1-163-235-11	CERAMIC CHIP 22PF 5% 50V	
C2003	1-164-222-11	CERAMIC CHIP 0.22MF 25V	
C2004	1-164-222-11	CERAMIC CHIP 0.22MF 25V	
C2005	1-163-038-00	CERAMIC CHIP 0.1MF 25V	
C2006	1-163-038-00	CERAMIC CHIP 0.1MF 25V	
C2008	1-164-222-11	CERAMIC CHIP 0.22MF 25V	
C2009	1-163-105-00	CERAMIC CHIP 33PF 5% 50V	
C2010	1-163-038-00	CERAMIC CHIP 0.1MF 25V	
C2011	1-163-038-00	CERAMIC CHIP 0.1MF 25V	
C2012	1-164-222-11	CERAMIC CHIP 0.22MF 25V	
C2014	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
C2015	1-164-349-11	CERAMIC CHIP 0.18MF 10% 25V	
C2016	1-164-222-11	CERAMIC CHIP 0.22MF 25V	
C2017	1-164-222-11	CERAMIC CHIP 0.22MF 25V	
C2018	1-164-505-11	CERAMIC CHIP 2.2MF 16V	
C2019	1-124-916-11	ELECT 22MF 20% 50V	
C2020	1-164-222-11	CERAMIC CHIP 0.22MF 25V	
C2021	1-163-113-00	CERAMIC CHIP 68PF 5% 50V	
C2022	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C2023	1-124-907-11	ELECT 10MF 20% 50V	
C2024	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	

M1

REF.NO.	PART NO.	DESCRIPTION		REMARK
C2025	1-163-117-00	CERAMIC CHIP 100PF	5%	50V
C2027	1-164-222-11	CERAMIC CHIP 0.22MF		25V

<FILTER>

REF.NO.	PART NO.	DESCRIPTION
CD001	1-577-364-11	VIBRATOR, CERAMIC

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION
CN1413	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P
CN1426*	1-568-881-51	PIN, CONNECTOR 6P
CN1432*	1-568-882-51	PIN, CONNECTOR 7P
CN1435*	1-568-882-51	PIN, CONNECTOR 7P

<DIODE>

REF.NO.	PART NO.	DESCRIPTION
D001	8-719-027-82	DIODE MA3039H-TX
D2001	8-719-036-58	DIODE MA3030-H(TX)
D2002	8-719-401-31	DIODE MA3047L-TX
D2003	8-719-104-34	DIODE 1S2836

<IC>

REF.NO.	PART NO.	DESCRIPTION
IC001	8-759-168-52	IC SDA30C162-GEG
IC002	8-759-167-62	IC TMS27PC010A-15FML
	1-750-797-11	SOCKET, PLCC ; IC002
IC561	8-752-347-92	IC CXD2018Q
IC562	8-759-998-98	IC LM358D
IC563	8-759-708-05	IC NJM78L05A
IC2001	8-759-708-05	IC NJM78L05A
IC2002	8-759-181-21	IC SDA5273-B19-GEG
IC2003	8-759-188-60	IC MB81C4256A-70PSZ
IC2004	8-759-170-67	IC SDA9085

<COIL>

REF.NO.	PART NO.	DESCRIPTION	
L001	1-408-421-00	INDUCTOR	100UH
L561	1-408-409-00	INDUCTOR	10UH
L562	1-408-409-00	INDUCTOR	10UH
L563	1-408-947-00	INDUCTOR	2.2MMH
L2001	1-410-674-31	INDUCTOR	82UH
L2004	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION
Q002	8-729-216-22	TRANSISTOR 2SA1162-G
Q003	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q564	8-729-216-22	TRANSISTOR 2SA1162-G
Q565	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q566	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q567	8-729-901-01	TRANSISTOR DTC144EK
Q2001	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q2002	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q2003	8-729-216-22	TRANSISTOR 2SA1162-G
Q2005	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q2006	8-729-901-01	TRANSISTOR DTC144EK
Q2008	8-729-901-00	TRANSISTOR DTC124EK

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION			
JR553	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR554	1-216-296-91	METAL GLAZE	0	5%	1/8W
R001	1-216-025-00	METAL GLAZE	100	5%	1/10W
R002	1-216-025-00	METAL GLAZE	100	5%	1/10W
R003	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R004	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R005	1-216-295-00	METAL GLAZE	0	5%	1/10W
R006	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R007	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R008	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R010	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R011	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R012	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R013	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R014	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R016	1-216-045-00	METAL GLAZE	680	5%	1/10W
R017	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R018	1-216-041-00	METAL GLAZE	470	5%	1/10W
R019	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R020	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R021	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R022	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R023	1-216-025-00	METAL GLAZE	100	5%	1/10W
R024	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R025	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R026	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R027	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R028	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R030	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R032	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R033	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R034	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R035	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R038	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R049	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R050	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R051	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R052	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R053	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R054	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R055	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R067	1-216-043-00	METAL GLAZE	560	5%	1/10W
R068	1-216-043-00	METAL GLAZE	560	5%	1/10W
R069	1-216-037-00	METAL GLAZE	330	5%	1/10W
R070	1-216-037-00	METAL GLAZE	330	5%	1/10W
R535	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R536	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R538	1-216-025-00	METAL GLAZE	100	5%	1/10W
R539	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W
R541	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R542	1-216-025-00	METAL GLAZE	100	5%	1/10W
R544	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R545	1-216-033-00	METAL GLAZE	220	5%	1/10W
R546	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R547	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R551	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R552	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R553	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R559	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R560	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R564	1-216-091-00	METAL GLAZE	56K	5%	1/10W
R565	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R566	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R567	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R568	1-216-109-00	METAL GLAZE	330K	5%	1/10W
R570	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R2001	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R2002	1-216-043-00	METAL GLAZE	560	5%	1/10W

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Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION	REMARK
R2003	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R2004	1-216-037-00	METAL GLAZE 330 5% 1/10W	
R2005	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R2007	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R2008	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R2009	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R2010	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R2011	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R2012	1-216-029-00	METAL GLAZE 150 5% 1/10W	
R2013	1-216-029-00	METAL GLAZE 150 5% 1/10W	
R2014	1-216-029-00	METAL GLAZE 150 5% 1/10W	
R2015	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R2016	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R2017	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R2018	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R2019	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R2020	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R2021	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R2022	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R2023	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R2024	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R2025	1-216-063-00	METAL GLAZE 3.9K 5% 1/10W	
R2026	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R2028	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W	
R2029	1-216-079-00	METAL GLAZE 18K 5% 1/10W	
R2032	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R2033	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R2035	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R2036	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R2037	1-216-049-00	METAL GLAZE 1K 5% 1/10W	

<CRYSTAL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
X2001	1-579-965-21	VIBRATOR, CRYSTAL	

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*A-1638-040-A C BOARD, COMPLETE
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<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
C701	1-162-114-00	CERAMIC 0.0047MF 2KV	
C703	1-123-946-00	ELECT 4.7MF 20% 250V	
C705	1-162-116-00	CERAMIC 680PF 10% 2KV	
C708	1-163-197-00	CERAMIC CHIP 470PF 10% 50V	
C709	1-163-005-11	CERAMIC CHIP 470PF 10% 50V	
C710	1-163-005-11	CERAMIC CHIP 470PF 10% 50V	
C711	1-101-880-00	CERAMIC 47PF 5% 50V	
C712	1-163-121-00	CERAMIC CHIP 150PF 5% 50V	
C713	1-163-121-00	CERAMIC CHIP 150PF 5% 50V	
C714	1-163-121-00	CERAMIC CHIP 150PF 5% 50V	
C716	1-124-122-11	ELECT 100MF 20% 50V	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN0002	1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
CN0403*	1-564-511-11	PLUG, CONNECTOR 8P	
CN0421*	1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D701	8-719-911-19	DIODE 1SS119	
D702	8-719-911-19	DIODE 1SS119	
D703	8-719-911-19	DIODE 1SS119	
D704	8-719-911-19	DIODE 1SS119	
D705	8-719-911-19	DIODE 1SS119	
D706	8-719-911-19	DIODE 1SS119	
D707	8-719-911-19	DIODE 1SS119	
D708	8-719-911-19	DIODE 1SS119	
D709	8-719-911-19	DIODE 1SS119	
D710	8-719-911-19	DIODE 1SS119	
D713	8-719-908-03	DIODE GP08D	

<JACK>

REF.NO.	PART NO.	DESCRIPTION	REMARK
J701	⚠1-526-990-21	SOCKET, PICTURE TUBE	

<COIL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
L701	1-410-667-31	INDUCTOR 22UH	
L703	1-408-609-41	INDUCTOR 33UH	
L705	1-408-609-41	INDUCTOR 33UH	
L707	1-408-609-41	INDUCTOR 33UH	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q701	8-729-906-70	TRANSISTOR BF871	
Q702	8-729-906-70	TRANSISTOR BF871	
Q703	8-729-906-70	TRANSISTOR BF871	
Q704	8-729-906-70	TRANSISTOR BF871	
Q705	8-729-906-70	TRANSISTOR BF871	
Q706	8-729-906-70	TRANSISTOR BF871	
Q707	8-729-200-17	TRANSISTOR 2SA1091-O	
Q708	8-729-200-17	TRANSISTOR 2SA1091-O	
Q709	8-729-200-17	TRANSISTOR 2SA1091-O	
Q710	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q711	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q712	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q713	8-729-216-22	TRANSISTOR 2SA1162-G	
Q714	8-729-255-12	TRANSISTOR 2SC2551-O	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
JR701	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR703	1-216-296-91	METAL GLAZE 0 5% 1/8W	
R701	1-202-848-00	SOLID 680K 10% 1/2W	
R702	1-202-838-00	SOLID 100K 20% 1/2W	
R703	1-202-838-00	SOLID 100K 20% 1/2W	
R704	1-202-842-11	SOLID 220K 10% 1/2W	
R705	1-216-398-11	METAL OXIDE 5.6 5% 3W	F
R706	1-216-398-11	METAL OXIDE 5.6 5% 3W	F
R707	1-249-421-11	CARBON 2.2K 5% 1/4W	
R708	1-249-421-11	CARBON 2.2K 5% 1/4W	
R709	1-249-421-11	CARBON 2.2K 5% 1/4W	
R710	1-215-899-11	METAL OXIDE 15K 5% 2W	F
R711	1-202-820-11	SOLID 1.5K 20% 1/2W	
R712	1-215-899-11	METAL OXIDE 15K 5% 2W	F
R713	1-202-820-11	SOLID 1.5K 20% 1/2W	
R714	1-215-899-11	METAL OXIDE 15K 5% 2W	F
R715	1-202-820-11	SOLID 1.5K 20% 1/2W	
R716	1-247-700-11	CARBON 100 5% 1/4W	F
R717	1-249-405-11	CARBON 100 5% 1/4W	F
R718	1-247-700-11	CARBON 100 5% 1/4W	F
R720	1-249-417-11	CARBON 1K 5% 1/4W	F
R722	1-247-713-11	CARBON 1K 5% 1/4W	F
R724	1-249-417-11	CARBON 1K 5% 1/4W	F
R725	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R726	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	

C **D5** **D**

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REF.NO.	PART NO.	DESCRIPTION				REMARK
R727	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R728	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R729	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R730	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R731	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R732	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R733	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R734	1-202-549-00	SOLID	100	20%	1/2W	
R735	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R738	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R739	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R740	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R741	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R742	1-216-029-00	METAL GLAZE	150	5%	1/10W	
R743	1-249-434-11	CARBON	27K	5%	1/4W	
R747	1-216-489-11	METAL OXIDE	27K	5%	3W	F
R749	1-216-490-11	METAL OXIDE	39K	5%	3W	F
R751	1-215-926-00	METAL OXIDE	33K	5%	3W	F
R753	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R758	1-249-419-11	CARBON	1.5K	5%	1/4W	
R759	1-249-419-11	CARBON	1.5K	5%	1/4W	
R760	1-249-419-11	CARBON	1.5K	5%	1/4W	

<VARIABLE RESISTOR>

RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M
RV702	1-241-656-11	RES, ADJ, METAL FILM 110M
RV702	1-241-656-11	RES, ADJ, METAL FILM 110M

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*A-1640-107-A D5 BOARD, COMPLETE
****

<CAPACITOR>

C803	1-164-695-11	CERAMIC CHIP	0.0022MF	5%	50V
C804	1-136-161-00	FILM	0.047MF	5%	50V
C806	1-124-907-11	ELECT	10MF	20%	50V
C823	1-124-902-00	ELECT	0.47MF	20%	50V
C827	1-130-777-00	FILM	0.1MF	5%	63V
C847	1-164-337-11	CERAMIC CHIP	2.2MF		16V
C852	1-164-299-11	CERAMIC CHIP	0.22MF	10%	25V
C853	1-124-910-11	ELECT	47MF	20%	50V
C857	1-124-902-00	ELECT	0.47MF	20%	50V
C861	1-130-777-00	FILM	0.1MF	5%	63V
C866	1-137-364-91	FILM	0.001MF	5%	50V
C870	1-137-364-91	FILM	0.001MF	5%	50V
C871	1-130-651-00	FILM	0.001MF	2%	100V
C872	1-124-907-11	ELECT	10MF	20%	50V
C873	1-137-364-91	FILM	0.001MF	5%	50V

<CONNECTOR>

CN2044	*1-573-299-11	CONNECTOR, BOARD TO BOARD 10P

<DIODE>

D804	8-719-911-19	DIODE 1SS119
D808	8-719-109-88	DIODE RD5.6ESB1
D818	8-719-109-93	DIODE RD6.2ESB2
D821	8-719-104-34	DIODE 1S2836
D827	8-719-982-96	DIODE MTZJ-T-77-2.2A

REF.NO.	PART NO.	DESCRIPTION
D830	8-719-104-34	DIODE 1S2836
D831	8-719-400-18	DIODE MA152WK
D832	8-719-104-34	DIODE 1S2836
D833	8-719-104-34	DIODE 1S2836

<IC>

IC802	8-759-987-16	IC LM393P

<TRANSISTOR>

Q804	8-729-216-22	TRANSISTOR 2SA1162-G
Q805	8-729-216-22	TRANSISTOR 2SA1162-G
Q812	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q818	8-729-216-22	TRANSISTOR 2SA1162-G

<RESISTOR>

JR802	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR803	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR804	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R802	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R805	1-216-679-11	METAL CHIP	15K	0.50%	1/10W	
R806	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R808	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R809	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R813	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R814	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R815	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R820	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R824	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	
R828	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R829	1-249-429-11	CARBON	10K	5%	1/4W	F
R830	1-216-687-11	METAL CHIP	33K	0.50%	1/10W	
R832	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R834	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R835	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R837	1-216-695-11	METAL CHIP	68K	0.50%	1/10W	
R838	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R846	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W	
R847	1-216-699-11	METAL CHIP	100K	0.50%	1/10W	
R867	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R884	1-216-693-11	METAL CHIP	56K	0.50%	1/10W	

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*A-1642-096-A D BOARD, COMPLETE
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4-200-001-01	HOLDER, IC
4-201-023-01	SPACER, INSULATING
4-202-536-01	PLATE (MAIN), SHIELD
*4-368-683-21	SPRING, TRANSISTOR
4-389-343-21	SPRING, IC
4-812-134-00	RIVET NYLON, 3.5

<CAPACITOR>

C601	1-130-202-00	FILM	0.022MF	10%	400V
C602	1-162-116-00	CERAMIC	680PF	10%	2KV
C603	⚠ 1-164-246-61	CERAMIC	0.0022MF	20%	400V
C605	1-124-910-11	ELECT	47MF	20%	50V
C608	1-124-903-11	ELECT	1MF	20%	50V
C611	1-102-002-00	CERAMIC	680PF	10%	500V
C612	1-130-481-00	FILM	0.0068MF	5%	50V

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION			REMARK
C613	1-129-722-00	FILM	0.047MF	10%	630V
C614	1-102-030-00	CERAMIC	330PF	10%	500V
C615	1-126-943-11	ELECT	2200MF	20%	25V
C616	1-102-030-00	CERAMIC	330PF	10%	500V
C617	1-162-116-00	CERAMIC	680PF	10%	2KV
C618	1-162-134-11	CERAMIC	470PF	10%	2KV
C619	1-102-030-00	CERAMIC	330PF	10%	500V
C620	1-164-299-11	CERAMIC CHIP	0.22MF	10%	25V
C621	1-124-347-00	ELECT	100MF	20%	160V
C622	1-128-320-11	ELECT	2200MF	20%	16V
C623	1-102-030-00	CERAMIC	330PF	10%	500V
C624	1-126-800-51	ELECT	2200MF	20%	35V
C625	1-126-800-51	ELECT	2200MF	20%	35V
C627	1-136-553-11	FILM	0.0015MF	10%	400V
C628	1-124-910-11	ELECT	47MF	20%	50V
C629	1-124-907-11	ELECT	10MF	20%	50V
C631	1-163-075-00	CERAMIC CHIP	0.047MF	10%	25V
C632	1-137-372-11	FILM	0.022MF	5%	50V
C633	1-163-078-11	CERAMIC CHIP	0.033MF	10%	25V
C636	1-130-777-00	FILM	0.1MF	5%	63V
C640	1-124-916-11	ELECT	22MF	20%	50V
C645	1-128-571-11	ELECT	56MF	20%	50V
C646	1-124-798-11	ELECT	1MF	20%	160V
C647	1-124-907-11	ELECT	10MF	20%	50V
C801	1-137-116-11	FILM	1MF	5%	200V
C805	1-124-902-00	ELECT	0.47MF	20%	50V
C808	1-162-114-00	CERAMIC	0.0047MF		2KV
C809	1-124-340-00	ELECT	22MF	20%	200V
C810	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C812	1-162-318-11	CERAMIC	0.001MF	10%	500V
C813	1-108-704-11	MYLAR	0.1MF	10%	200V
C815	1-162-117-00	CERAMIC	100PF	10%	500V
C819	1-126-103-11	ELECT	470MF	20%	16V
C821 ⚠	1-137-514-11	FILM	0.021MF	2%	2KV
C822 ⚠	1-162-116-91	CERAMIC	680PF	10%	2KV
C824	1-137-366-11	FILM	0.0022MF	5%	50V
C825 ⚠	1-162-116-91	CERAMIC	680PF	10%	2KV
C826 ⚠	1-137-515-61	FILM	0.056MF	3%	400V
C828	1-136-557-11	FILM	0.0033MF	10%	400V
C831	1-123-932-00	ELECT	4.7MF	20%	160V
C832	1-124-910-11	ELECT	47MF	20%	50V
C833	1-137-117-11	FILM	1.5MF	5%	200V
C834	1-137-114-11	FILM	0.68MF	5%	200V
C835	1-124-480-11	ELECT	470MF	20%	25V
C836	1-102-228-00	CERAMIC	470PF	10%	500V
C837	1-129-702-00	FILM	0.001MF	10%	400V
C838	1-129-725-00	FILM	0.082MF	10%	250V
C839	1-123-950-00	ELECT	47MF	20%	250V
C840	1-124-480-11	ELECT	470MF	20%	25V
C841	1-102-228-00	CERAMIC	470PF	10%	500V
C842	1-104-722-91	FILM	0.068MF	10%	250V
C843	1-124-907-11	ELECT	10MF	20%	50V
C846	1-123-024-21	ELECT	33MF		160V
C851	1-137-364-91	FILM	0.001MF	5%	50V
C854 ⚠	1-162-116-91	CERAMIC	680PF	10%	2KV
C863	1-106-383-00	MYLAR	0.047MF	10%	100V
C869	1-130-777-00	FILM	0.1MF	5%	63V
C875	1-102-038-00	CERAMIC	0.001MF		500V
C877	1-124-902-00	ELECT	0.47MF	20%	50V
C878	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C879	1-102-228-00	CERAMIC	470PF	10%	500V
C1501	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C1502	1-124-903-11	ELECT	1MF	20%	50V
C1503	1-163-133-00	CERAMIC CHIP	470PF	5%	50V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C1504	1-124-480-11	ELECT	470MF	20%	25V
C1505	1-124-911-11	ELECT	220MF	20%	50V
C1506	1-136-202-11	FILM	0.33MF	5%	63V
C1507	1-106-222-00	MYLAR	0.12MF	10%	100V
C1508	1-124-480-11	ELECT	470MF	20%	25V
C1509	1-124-767-00	ELECT	2.2MF	20%	50V
C1511	1-124-907-11	ELECT	10MF	20%	50V
C1512	1-124-006-11	ELECT	10MF	20%	25V
C1514	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1515	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION
CN0004	1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P
CN0009	1-568-878-51	PIN, CONNECTOR 3P
CN0504	*1-564-511-11	PLUG, CONNECTOR 8P
CN0505	*1-568-880-51	PIN, CONNECTOR 5P
CN0506	*1-568-880-51	PIN, CONNECTOR 5P
CN0519	*1-568-878-51	PIN, CONNECTOR 3P
CN0521	1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P
CN0524	*1-568-878-51	PIN, CONNECTOR 3P
CN0525	*1-695-294-11	PIN, CONNECTOR (PC BOARD) 6P
CN0526	*1-568-881-51	PIN, CONNECTOR 6P
CN0529	1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P
CN0544	1-573-296-11	CONNECTOR, BOARD TO BOARD 10P
CN5521	*1-568-878-51	PIN, CONNECTOR 3P
DY1	*1-580-798-11	CONNECTOR PIN (DY) 6P

<DIODE>

REF.NO.	PART NO.	DESCRIPTION
D601	8-719-104-34	DIODE 1S2836
D602	8-719-302-43	DIODE EL1Z
D604	8-719-921-91	DIODE MTZJ-15A
D605	8-719-989-91	DIODE 1N4148A-T265
D606	8-719-302-43	DIODE EL1Z
D607	8-719-302-43	DIODE EL1Z
D608	8-719-300-33	DIODE RU-3AM
D610	1-806-660-11	DIODE ESAB85-009
D611	8-719-029-04	DIODE D5L60
D612	8-719-510-09	DIODE D10SC6M
D613	8-719-920-68	DIODE ESAB92-02
D614	8-719-920-68	DIODE ESAB92-02
D616	8-719-110-31	DIODE RD12ESB2
D619	8-719-400-18	DIODE MA152WK
D620	8-719-911-19	DIODE 1SS119
D621	8-719-302-43	DIODE EL1Z
D624	8-719-312-39	DIODE R2K-V1
D801	8-719-018-82	DIODE RGP02-20EL-6394
D802	8-719-302-43	DIODE EL1Z
D803	8-719-982-27	DIODE MTZJ-33C
D809	8-719-110-03	DIODE RD7.5ESB2
D812	8-719-908-03	DIODE GP08D
D813	8-719-908-03	DIODE GP08D
D814	8-719-979-85	DIODE EGP20G
D815	8-719-302-43	DIODE EL1Z
D816	8-719-979-85	DIODE EGP20G
D822	8-719-982-20	DIODE MTZJ-30B
D824	8-719-028-72	DIODE RGP02-17EL-6433
D825	8-719-400-18	DIODE MA152WK
D826	8-719-400-18	DIODE MA152WK
D828	8-719-911-19	DIODE 1SS119
D1501	8-719-400-18	DIODE MA152WK
D1503	8-719-908-03	DIODE GP08D
D1504	8-719-982-03	DIODE MTZJ-3.6A

D

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<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC601	8-759-073-29	IC TDA4605-3	
IC602	8-759-908-15	IC TL431CLP	
IC603⚠	8-749-923-44	IC SFH617G-1	
IC801	8-759-103-93	IC LM393P	
IC803	8-759-081-31	IC MC78L12ACPRP	
IC1501	8-759-506-46	IC TDA8179S	

<COIL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
L602	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
L603	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
L604	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
L605	1-459-442-00	COIL (WITH CORE)	
L606	1-459-442-00	COIL (WITH CORE)	
L609	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
L610	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
L622	1-412-533-21	INDUCTOR 47UH	
L623	1-412-533-21	INDUCTOR 47UH	
L803	1-420-872-00	COIL, AIR CORE	
L808	1-412-547-21	INDUCTOR 680UH	
L809	1-459-104-00	COIL, WITH CORE	
L810	1-460-197-21	COIL, FERRITE (PMC)	
L811	1-412-519-11	INDUCTOR 3.3UH	
L812	1-412-519-11	INDUCTOR 3.3UH	
L813	1-412-519-11	INDUCTOR 3.3UH	
L817	1-460-196-11	COIL, HORIZONTAL LINEARITY	
L1501	1-412-531-31	INDUCTOR 33UH	
L1502	1-412-525-21	INDUCTOR 10UH	
L1503	1-412-531-31	INDUCTOR 33UH	

<IC LINK>

REF.NO.	PART NO.	DESCRIPTION	REMARK
PS601⚠	1-532-686-91	LINK, IC 2.7A	
PS602⚠	1-532-686-91	LINK, IC 2.7A	
PS603⚠	1-532-686-91	LINK, IC 2.7A	
PS604⚠	1-532-686-91	LINK, IC 2.7A	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q601	8-729-016-14	TRANSISTOR BUZ91A-E3155	
Q602	8-729-177-22	TRANSISTOR 2SB772-Q	
Q603	8-729-900-53	TRANSISTOR DTC114EK	
Q604	8-729-209-15	TRANSISTOR 2SD2012	
Q605	8-729-255-12	TRANSISTOR 2SC2551-O	
Q606	8-729-216-22	TRANSISTOR 2SA1162-G	
Q611	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q612	8-729-903-29	TRANSISTOR DTA144TK	
Q613	8-729-216-22	TRANSISTOR 2SA1162-G	
Q801	8-729-016-32	TRANSISTOR 2SC4927-01	
Q802	8-729-140-97	TRANSISTOR 2SB734-34	
Q806	8-729-019-71	TRANSISTOR 2SK1916-53-F50	
Q807	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q813	8-729-140-96	TRANSISTOR 2SD774-34	
Q1501	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1502	8-729-901-01	TRANSISTOR DTC144EK	
Q1503	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1504	8-729-901-01	TRANSISTOR DTC144EK	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
JR001	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR002	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR003	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR004	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR005	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR006	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR007	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR502	1-216-296-91	METAL GLAZE	0	5%	1/8W	
JR503	1-216-296-91	METAL GLAZE	0	5%	1/8W	
JR504	1-216-296-91	METAL GLAZE	0	5%	1/8W	
JR505	1-216-296-91	METAL GLAZE	0	5%	1/8W	
JR506	1-216-296-91	METAL GLAZE	0	5%	1/8W	
JR508	1-216-296-91	METAL GLAZE	0	5%	1/8W	
JR509	1-216-296-91	METAL GLAZE	0	5%	1/8W	
JR510	1-216-296-91	METAL GLAZE	0	5%	1/8W	
JR511	1-216-296-91	METAL GLAZE	0	5%	1/8W	
JR512	1-216-296-91	METAL GLAZE	0	5%	1/8W	
JR601	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR602	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR603	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R602	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R603	1-215-901-00	METAL OXIDE	33K	5%	2W	F
R604	1-260-200-11	CARBON	240K	5%	1/2W	
R605	1-216-313-00	METAL GLAZE	8.2	5%	1/10W	
R606	1-216-035-00	METAL GLAZE	270	5%	1/10W	
R607	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W	
R608	1-215-903-11	METAL OXIDE	68K	5%	2W	F
R609	1-249-395-11	CARBON	15	5%	1/4W	
R610	1-247-881-00	CARBON	120K	5%	1/4W	
R611	1-215-886-11	METAL OXIDE	100	5%	2W	F
R612	1-247-894-11	CARBON	430K	5%	1/4W	
R613	1-216-260-11	METAL GLAZE	390K	5%	1/8W	
R614	1-216-487-11	METAL OXIDE	12K	5%	3W	F
R615	1-216-487-11	METAL OXIDE	12K	5%	3W	F
R617	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R618	1-216-449-11	METAL OXIDE	56	5%	2W	F
R620	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R621	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R622	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R623	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R625	1-216-449-11	METAL OXIDE	56	5%	2W	F
R626	1-216-635-11	METAL CHIP	220	0.50%	1/10W	
R627	1-249-398-11	CARBON	27	5%	1/4W	F
R629	1-215-464-00	METAL	62K	1%	1/4W	
R630	1-249-421-11	CARBON	2.2K	5%	1/4W	
R631	1-216-397-11	METAL OXIDE	4.7	5%	3W	F
R633	1-249-415-11	CARBON	680	5%	1/4W	
R634	1-215-477-00	METAL	220K	1%	1/4W	
R635	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R636	1-215-925-11	METAL OXIDE	22K	5%	3W	F
R637	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R638	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R639	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R640	1-207-905-00	WIREWOUND	0.27	10%	2W	F
R642	1-216-373-11	METAL OXIDE	2.2	5%	2W	F
R643	1-249-417-11	CARBON	1K	5%	1/4W	
R645	1-215-464-00	METAL	62K	1%	1/4W	
R646	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R647	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R648	1-249-424-11	CARBON	3.9K	5%	1/4W	
R649	1-216-270-00	METAL GLAZE	1M	5%	1/8W	
R650	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R651	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R652	1-216-109-00	METAL GLAZE	330K	5%	1/10W	
R653	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R654	1-215-904-11	METAL OXIDE	100K	5%	2W	F
R655	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R656	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R657	1-249-407-11	CARBON	150	5%	1/4W	
R801	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R803	1-535-143-31	LEAD, JUMPER (15.0MM)				
R804	1-217-778-11	FUSIBLE	1K	5%	1W	F
R807	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R811	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R812	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R818	1-216-688-11	METAL CHIP	36K	0.50%	1/10W	
R819	1-247-755-11	CARBON	1.8K	5%	1/2W	F
R821	1-215-918-00	METAL OXIDE	1.5K	5%	3W	F
R822	1-215-918-00	METAL OXIDE	1.5K	5%	3W	F
R823	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R825	1-216-345-11	METAL OXIDE	0.47	5%	1W	F
R826	1-216-166-00	METAL GLAZE	47	5%	1/8W	
R833	1-216-105-00	METAL GLAZE	220K	5%	1/10W	
R839	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R840	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R841	1-249-397-11	CARBON	22	5%	1/4W	F
R842	1-215-890-11	METAL OXIDE	470	5%	2W	F
R849	1-216-446-00	METAL OXIDE	18	5%	2W	F
R851	1-247-743-11	CARBON	220	5%	1/2W	F
R852	1-249-389-11	CARBON	4.7	5%	1/4W	F
R853	1-249-443-11	CARBON	0.47	5%	1/4W	F
R854	1-249-443-11	CARBON	0.47	5%	1/4W	F
R855	1-202-818-00	SOLID	1K	10%	1/2W	
R858	1-249-425-11	CARBON	4.7K	5%	1/4W	
R864	1-216-686-11	METAL CHIP	30K	0.50%	1/10W	
R868	1-249-434-11	CARBON	27K	5%	1/4W	
R871	1-249-493-11	CARBON	56K	5%	1/2W	
R872	1-249-393-11	CARBON	10	5%	1/4W	F
R873	1-249-393-11	CARBON	10	5%	1/4W	F
R876	1-249-421-11	CARBON	2.2K	5%	1/4W	
R877	1-215-880-00	METAL OXIDE	10	5%	2W	F
R878	1-216-448-11	METAL OXIDE	39	5%	2W	F
R889	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R893	1-215-878-00	METAL OXIDE	33K	5%	1W	F
R894	1-216-264-00	METAL GLAZE	560K	5%	1/8W	
R895	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R897	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R898	1-216-262-00	METAL GLAZE	470K	5%	1/8W	
R1501	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W	
R1502	1-216-664-11	METAL CHIP	3.6K	0.50%	1/10W	
R1503	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1504	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1505	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1506	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1508	1-216-684-11	METAL CHIP	24K	0.50%	1/10W	
R1509	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R1510	1-249-382-11	CARBON	1.2	5%	1/4W	F
R1511	1-215-888-00	METAL OXIDE	220	5%	2W	F
R1512	1-216-371-00	METAL OXIDE	1.5	5%	2W	F
R1514	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1551	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	

<VARIABLE RESISTOR>

RV601	1-241-628-11	RES, ADJ, CARBON 2.2K

<TRANSFORMER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
T601	⚠ 1-423-738-11	S.R.T (SMT89)	
T801	⚠ 1-453-118-11	TRANSFORMER ASSY, FLYBACK (NX-2600A2)	
T803	1-437-090-00	HDT	

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*A-1644-028-A VM BOARD, COMPLETE
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*4-368-683-21 SPRING, TRANSISTOR

<CAPACITOR>

C1701	1-124-119-00	ELECT	330MF	20%	16V
C1702	1-101-880-00	CERAMIC	47PF	5%	50V
C1703	1-102-115-00	CERAMIC	560PF	10%	50V
C1704	1-161-830-00	CERAMIC	0.0047MF		500V
C1705	1-124-120-11	ELECT	220MF	20%	16V
C1706	1-123-935-00	ELECT	33MF	20%	160V
C1707	1-124-907-11	ELECT	10MF	20%	50V
C1708	1-101-006-00	CERAMIC	0.047MF		50V
C1709	1-108-704-11	MYLAR	0.1MF	10%	200V
C1710	1-104-721-91	FILM	0.047MF	10%	250V
C1711	1-162-318-11	CERAMIC	0.001MF	10%	500V
C1712	1-124-799-11	ELECT	2.2MF	20%	160V
C1713	1-162-318-11	CERAMIC	0.001MF	10%	500V
C1714	1-104-721-91	FILM	0.047MF	10%	250V
C1716	1-124-907-11	ELECT	10MF	20%	50V
C1718	1-124-120-11	ELECT	220MF	20%	16V
C1719	1-124-927-11	ELECT	4.7MF	20%	50V

<CONNECTOR>

CN1819	*1-568-882-51	PIN, CONNECTOR 7P

<DIODE>

D1701	8-719-911-19	DIODE 1SS119
D1702	8-719-911-19	DIODE 1SS119
D1703	8-719-911-19	DIODE 1SS119
D1704	8-719-982-37	DIODE MTZJ-39C
D1705	8-719-982-37	DIODE MTZJ-39C
D1706	8-719-911-19	DIODE 1SS119
D1707	8-719-911-19	DIODE 1SS119

<COIL>

L1702	1-408-418-00	INDUCTOR	56UH

<TRANSISTOR>

Q1701	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q1702	8-729-173-38	TRANSISTOR 2SA733-K
Q1703	8-729-017-05	TRANSISTOR 2SA1837
Q1704	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q1705	8-729-017-06	TRANSISTOR 2SC4793
Q1706	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q1707	8-729-140-96	TRANSISTOR 2SD774-34
Q1708	8-729-901-59	TRANSISTOR BF199
Q1709	8-729-255-12	TRANSISTOR 2SC2551-0

<RESISTOR>

R1701	1-249-405-11	CARBON	100	5%	1/4W
R1702	1-249-420-11	CARBON	1.8K	5%	1/4W

VM | H1 | H2 | K

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1703	1-249-405-11	CARBON	100	5%	1/4W	
R1704	1-249-420-11	CARBON	1.8K	5%	1/4W	
R1705	1-247-736-11	CARBON	56	5%	1/2W	F
R1706	1-249-414-11	CARBON	560	5%	1/4W	F
R1707	1-249-412-11	CARBON	390	5%	1/4W	
R1709	1-249-416-11	CARBON	820	5%	1/4W	
R1710	1-249-385-11	CARBON	2.2	5%	1/4W	F
R1711	1-249-432-11	CARBON	18K	5%	1/4W	
R1712	1-249-435-11	CARBON	33K	5%	1/4W	
R1713	1-249-438-11	CARBON	56K	5%	1/4W	
R1714	1-249-429-11	CARBON	10K	5%	1/4W	
R1715	1-216-476-11	METAL OXIDE	180	5%	3W	F
R1716	1-249-417-11	CARBON	1K	5%	1/4W	F
R1717	1-249-432-11	CARBON	18K	5%	1/4W	
R1718	1-249-410-11	CARBON	270	5%	1/4W	
R1719	1-249-419-11	CARBON	1.5K	5%	1/4W	
R1720	1-249-441-11	CARBON	100K	5%	1/4W	
R1721	1-249-414-11	CARBON	560	5%	1/4W	
R1722	1-249-385-11	CARBON	2.2	5%	1/4W	F
R1723	1-249-429-11	CARBON	10K	5%	1/4W	
R1724	1-249-436-11	CARBON	39K	5%	1/4W	
R1725	1-249-417-11	CARBON	1K	5%	1/4W	
R1726	1-249-411-11	CARBON	330	5%	1/4W	
R1727	1-249-402-11	CARBON	56	5%	1/4W	F
R1729	1-216-451-11	METAL OXIDE	120	5%	2W	F
R1731	1-249-420-11	CARBON	1.8K	5%	1/4W	
R1732	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1734	1-249-419-11	CARBON	1.5K	5%	1/4W	

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*1-648-314-11 H1 BOARD
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<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION			
C083	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C087	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V

<JACK>

REF.NO.	PART NO.	DESCRIPTION
J-81	1-568-678-11	TERMINAL BLOCK, S 3P
J-82	1-562-837-11	JACK

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION
CN1008	*1-564-516-11	PLUG, CONNECTOR 13P

<COIL>

REF.NO.	PART NO.	DESCRIPTION	
L081	1-408-409-00	INDUCTOR	10UH
L082	1-408-409-00	INDUCTOR	10UH

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION			
JR021	1-216-295-00	METAL GLAZE	0	5%	1/10W
R081	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R082	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R083	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R084	1-216-202-00	METAL GLAZE	1.5K	5%	1/8W
R085	1-216-202-00	METAL GLAZE	1.5K	5%	1/8W

<SWITCH>

REF.NO.	PART NO.	DESCRIPTION
S081	1-571-532-21	SWITCH, TACTIL
S082	1-571-532-21	SWITCH, TACTIL
S083	1-571-532-21	SWITCH, TACTIL

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*1-648-475-11 H2 BOARD
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PART NO.	DESCRIPTION
*4-201-076-01	HOLDER, LED
*4-374-987-01	GUIDE, LIGHT
4-381-686-01	BRACKET (B), LIGHT GUIDE

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION
CN1132	*1-568-882-51	PIN, CONNECTOR 7P

<DIODE>

REF.NO.	PART NO.	DESCRIPTION
D092	8-719-948-31	DIODE LD-201VR
D093	8-719-948-31	DIODE LD-201VR
D094	8-719-948-31	DIODE LD-201VR

<IC>

REF.NO.	PART NO.	DESCRIPTION
IC091	8-741-101-75	IC SBX1610-11

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION			
R091	1-216-190-00	METAL GLAZE	470	5%	1/8W

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*A-1649-007-A K BOARD, COMPLETE
****

PART NO.	DESCRIPTION
4-200-001-01	HOLDER, IC
4-201-023-01	SPACER, INSULATING

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION			
C268	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C269	1-101-006-00	CERAMIC	0.047MF		50V
C270	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C271	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C272	1-124-907-11	ELECT	10MF	20%	50V
C273	1-124-618-11	ELECT	2200MF	20%	35V
C274	1-124-618-11	ELECT	2200MF	20%	35V
C275	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C276	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C277	1-130-772-00	FILM	0.22MF	5%	63V
C278	1-124-925-11	ELECT	2.2MF	20%	50V
C279	1-124-122-11	ELECT	100MF	20%	35V

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION
CN1311	1-568-882-51	PIN, CONNECTOR 7P
CN1312	1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P
CN1333	1-568-878-51	PIN, CONNECTOR 3P

<DIODE>

REF.NO.	PART NO.	DESCRIPTION
D261	8-719-911-19	DIODE 1SS119
D262	8-719-911-19	DIODE 1SS119
D264	8-719-911-19	DIODE 1SS119
D265	8-719-911-19	DIODE 1SS119
D270	8-719-921-69	DIODE MTZJ-9.1

REF.NO.	PART NO.	DESCRIPTION				REMARK
		<IC>				
IC270	8-759-072-99	IC TDA2052				
		<TRANSISTOR>				
Q270	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
		<RESISTOR>				
R269	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R270	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R271	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R272	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R273	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R274	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R275	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R276	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R277	1-217-477-00	FUSIBLE	4.7	5%	1W	F
R278	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R279	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R280	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R281	1-247-752-11	CARBON	1K	5%	1/2W	

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*A-1651-052-A J BOARD, COMPLETE
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REF.NO.	PART NO.	DESCRIPTION				REMARK
		<CAPACITOR>				
C281	1-124-119-00	ELECT	330MF	20%	16V	
C291	1-101-005-00	CERAMIC	0.022MF		50V	
C292	1-101-005-00	CERAMIC	0.022MF		50V	
C293	1-101-003-00	CERAMIC	0.0047MF		50V	
C294	1-101-003-00	CERAMIC	0.0047MF		50V	
C295	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C296	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C297	1-101-003-00	CERAMIC	0.0047MF		50V	
C298	1-101-005-00	CERAMIC	0.022MF		50V	
C901	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	
C902	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	
C904	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C905	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C906	1-101-004-00	CERAMIC	0.01MF		50V	
C907	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C908	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C909	1-101-004-00	CERAMIC	0.01MF		50V	
C910	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	
C911	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	
C912	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C913	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C914	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	
C915	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	
C916	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	
C917	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	
C918	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C919	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C920	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	
C921	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	
C922	1-124-477-11	ELECT	47MF	20%	16V	
C923	1-164-346-11	CERAMIC CHIP	1MF		16V	
C924	1-124-477-11	ELECT	47MF	20%	16V	
C925	1-124-477-11	ELECT	47MF	20%	16V	

REF.NO.	PART NO.	DESCRIPTION			REMARK
C926	1-164-346-11	CERAMIC CHIP	1MF		16V
C927	1-124-477-11	ELECT	47MF	20%	16V
C928	1-124-477-11	ELECT	47MF	20%	16V
C929	1-124-477-11	ELECT	47MF	20%	16V
C930	1-124-477-11	ELECT	47MF	20%	16V
C931	1-164-346-11	CERAMIC CHIP	1MF		16V
C932	1-164-346-11	CERAMIC CHIP	1MF		16V
C933	1-124-477-11	ELECT	47MF	20%	16V
C934	1-124-477-11	ELECT	47MF	20%	16V
C935	1-124-477-11	ELECT	47MF	20%	16V
C936	1-164-346-11	CERAMIC CHIP	1MF		16V
C937	1-164-346-11	CERAMIC CHIP	1MF		16V
C938	1-124-477-11	ELECT	47MF	20%	16V
		<CONNECTOR>			
CN1209	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P			
CN1210	*1-564-522-11	PLUG, CONNECTOR 7P			
CN1233	*1-564-518-11	PLUG, CONNECTOR 3P			
		<DIODE>			
D901	8-719-921-69	DIODE MTZJ-9.1			
D902	8-719-921-69	DIODE MTZJ-9.1			
D903	8-719-921-69	DIODE MTZJ-9.1			
D904	8-719-921-69	DIODE MTZJ-9.1			
D905	8-719-921-69	DIODE MTZJ-9.1			
D906	8-719-921-69	DIODE MTZJ-9.1			
D907	8-719-921-69	DIODE MTZJ-9.1			
D908	8-719-921-69	DIODE MTZJ-9.1			
D909	8-719-921-69	DIODE MTZJ-9.1			
D910	8-719-921-69	DIODE MTZJ-9.1			
D911	8-719-921-69	DIODE MTZJ-9.1			
D912	8-719-921-69	DIODE MTZJ-9.1			
D913	8-719-921-69	DIODE MTZJ-9.1			
D914	8-719-921-69	DIODE MTZJ-9.1			
D915	8-719-921-69	DIODE MTZJ-9.1			
D916	8-719-921-69	DIODE MTZJ-9.1			
D917	8-719-921-69	DIODE MTZJ-9.1			
D918	8-719-921-69	DIODE MTZJ-9.1			
D919	8-719-921-69	DIODE MTZJ-9.1			
D920	8-719-921-69	DIODE MTZJ-9.1			
D921	8-719-921-69	DIODE MTZJ-9.1			
D922	8-719-921-69	DIODE MTZJ-9.1			
D923	8-719-921-69	DIODE MTZJ-9.1			
D924	8-719-921-69	DIODE MTZJ-9.1			
D925	8-719-921-69	DIODE MTZJ-9.1			
D926	8-719-921-69	DIODE MTZJ-9.1			
D927	8-719-921-69	DIODE MTZJ-9.1			
D928	8-719-921-69	DIODE MTZJ-9.1			
D999	8-719-921-91	DIODE MTZJ-15A			
		<JACK>			
J901	1-695-296-11	TERMINAL BLOCK, S			
J903	1-561-534-41	SOCKET, PIN 21P			
J903	1-695-550-11	SOCKET 21P			
J904	1-695-296-11	TERMINAL BLOCK, S			
J905	1-695-293-11	SOCKET 21P			
J906	1-695-296-11	TERMINAL BLOCK, S			
J907	1-695-293-11	SOCKET 21P			
		<COIL>			

J

REF.NO.	PART NO.	DESCRIPTION				REMARK
L281	1-402-711-11	INDUCTOR, WIDEBAND				
L282	1-402-711-11	INDUCTOR, WIDEBAND				
L283	1-402-711-11	INDUCTOR, WIDEBAND				
L291	1-402-711-11	INDUCTOR, WIDEBAND				
L292	1-402-711-11	INDUCTOR, WIDEBAND				
L293	1-402-711-11	INDUCTOR, WIDEBAND				
		<TRANSISTOR>				
Q281	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
Q282	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
		<RESISTOR>				
JR901	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR905	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR906	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR909	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR910	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR911	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR915	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR917	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR918	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR919	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR920	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR921	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR923	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR924	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR926	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR927	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR928	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR935	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR939	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR940	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR942	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR944	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR946	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR947	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR952	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR954	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR955	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR956	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR957	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R282	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R283	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R284	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R287	1-216-216-00	METAL GLAZE	5.6K	5%	1/8W	
R288	1-216-216-00	METAL GLAZE	5.6K	5%	1/8W	
R289	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R290	1-216-216-00	METAL GLAZE	5.6K	5%	1/8W	
R291	1-249-413-11	CARBON	470	5%	1/4W	
R292	1-249-413-11	CARBON	470	5%	1/4W	
R901	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R902	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R903	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R904	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R905	1-216-188-00	METAL GLAZE	390	5%	1/8W	
R906	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R907	1-216-029-00	METAL GLAZE	150	5%	1/10W	
R908	1-216-029-00	METAL GLAZE	150	5%	1/10W	
R909	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R910	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R911	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R913	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
R914	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
R915	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R916	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R917	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R919	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
R920	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
R921	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R922	1-216-222-00	METAL GLAZE	10K	5%	1/8W	
R923	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R924	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R925	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R926	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R927	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R928	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R929	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
R930	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R931	1-216-212-00	METAL GLAZE	3.9K	5%	1/8W	
R932	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R933	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R934	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
R935	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R936	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R937	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R938	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R939	1-216-188-00	METAL GLAZE	390	5%	1/8W	
R940	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
R941	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R942	1-216-188-00	METAL GLAZE	390	5%	1/8W	
R943	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R944	1-216-188-00	METAL GLAZE	390	5%	1/8W	
R945	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R946	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R947	1-216-029-00	METAL GLAZE	150	5%	1/10W	
R948	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R949	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R950	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
R951	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
R952	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R953	1-216-188-00	METAL GLAZE	390	5%	1/8W	
R954	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R955	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R956	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R957	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R958	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R959	1-216-674-11	METAL CHIP	9.1K	0.50%	1/10W	
R960	1-216-674-11	METAL CHIP	9.1K	0.50%	1/10W	
R961	1-216-674-11	METAL CHIP	9.1K	0.50%	1/10W	
R965	1-216-029-00	METAL GLAZE	150	5%	1/10W	
R966	1-216-029-00	METAL GLAZE	150	5%	1/10W	
R967	1-216-029-00	METAL GLAZE	150	5%	1/10W	
R968	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R969	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R970	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R971	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R972	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R973	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R974	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R975	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R976	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R977	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	

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The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION	REMARK
		MISCELLANEOUS	
	1-239-728-11	NETWORK, DIVIDING	
	⚠ 1-406-806-21	COIL, DEMAGNETIZATION	
	⚠ 1-451-404-21	DEFRECTION YOKE (Y25GXA)	
	⚠ 1-452-509-42	NECK ASSY, PICTURE TUBE (NA-308)	
	1-504-333-11	SPEAKER (5X11CM)	
	1-504-398-11	SPEAKER	
	1-544-767-11	SPEAKER (13CM)	
	⚠ 1-590-460-11	CORD, POWER(WITH NOISE FILTER) 7.0A/250V (KV-E2541B,E2543E)	
	⚠ 1-590-762-11	CORD, POWER(WITH PLUG) 2.5A/250V (KV-E2542U)	
	⚠ 1-751-680-11	CORD, POWER(WITH NOISE FILTER) 2.5A/250V (KV-E2541A,E2541D)	
	1-696-406-11	CABLE, SPEAKER (WITH GROMMET)	
	1-696-407-11	CABLE, SPEAKER (WITH GROMMET)	
	1-751-616-11	CABLE, SPEAKER (WITH GROMMET)	
V901	⚠ 8-733-232-05	PICTURE TUBE (M60KWL10X)	
		ACCESSORIES AND PACKING MATERIALS	
	A-1678-062-A	BOX COMPLETE ASSY (L)	
	A-1678-063-A	BOX COMPLETE ASSY (R)	
	A-1678-071-A	BOX COMPLETE ASSY WOOFER	
	*4-039-905-01	BAG, PROTECTION	
	4-202-388-01	DOOR, REAR	
	4-202-393-11	MANUAL, INSTRUCTION (KV-E2541D) (GERMAN/ENGLISH/FRENCH/DUTCH/ITALIAN)	
	4-202-393-41	MANUAL, INSTRUCTION (KV-E2541A) (ITALIAN)	
	4-202-393-51	MANUAL, INSTRUCTION (KV-E2541B) (FRENCH/GERMAN/ITALIAN)	
	4-202-393-61	MANUAL, INSTRUCTION (KV-E2542U)	
	4-202-393-71	MANUAL, INSTRUCTION (KV-E2543E) (SPANISH)	
	4-202-393-81	MANUAL, INSTRUCTION (KV-E2543E) (FRENCH/DUTCH/SWEDISH/DANISH/FINNISH/NORWEGIAN/PORTUGUESE)	
	4-202-393-91	MANUAL, INSTRUCTION (KV-E2541D)	
	*4-202-441-01	INDIVIDUAL CARTON	
	*4-202-442-01	CUSHION (LOWER) (ASSY)	
	*4-202-443-01	CUSHION (UPPER) (ASSY)	
	*4-202-449-01	CAP, KEY HOLE	
	*4-202-538-01	BAG, PROTECTION	
		REMOTE COMMANDER	
	1-467-272-11	COMMANDER,STANDARD TYPE(RM831)	
	9-903-466-01	POCKET COVER (FOR RM831)	